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	K-PL-5414438-0-DBP	CONSOLE MODULE ASSY - PARTS LIST
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	A-PA-3700662-0-0	PKG INSTR , CPU , 11730-Z
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11/30-ZA	

11730-Z

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MP01270

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Ž	Ž			R.MORIN	13APR82		11	1730-Z		
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E					13APR82	SIZE	CODE	NUMBER	T	REV.
	Æ			FIELD SERV.	DATE	В	TC	11730-Z-1		A
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B-DD-KA730-A K-PL-KA730-A-DBP B-DD-M8390-0 D-UA-M8390-0-0 K-PL-M8390-0-DBP D-BD-M8390-0-0 D-BD-M8390-0-1 D-CS-M8390-0-DAPX(COMPLETE) D-GL-M8390-0-0 D-TD-M8390-0-0 D-EC-5013860-0-0 B-DD-M8391-0 D-UA-M8391-0-0 K-PL-M8391-0-DBP D-BD-M8391-0-1 D-CS-M8391-0-MCTX(COMPLETE) D-FC-M8391-0-XX(COMPLETE) D-GL-M8391-0-0 D-TD-M8391-0-0 D-EC-5013893-0-0 B-DD-M8394-0 D-UA-M8394-0-0 K-PL-M8394-0-DBP D-BD-M8394-0-0 D-CS-M8394-O-WCSX(COMPLETE) D-GL-M8394-0-0 D-TD-M8394-0-0 D-EC-5014439-0-0 B-DD-G7273-0 D-UA-G7273-0-0

K-PL-G7273-0-DBP D-CS-M9302-YA-1

MP01366

11730 MODULE SET - DWG. DIRECTORY 11730 MODULE SET - PARTS LIST M8390 DATA PATH MODULE - DWG DIRECTORY M8390 DATA PATH MODULE ASSY M8390 DATA PATH MODULE ASSY - PARTS LIST DATA PATH BLOCK DIAGRAM CONTROL STORE FORMATS DATA PATH - CIRCUIT SCHEM. DATA PATH - ROM AND PALS LISTING 11730 CPU MICROCYCLE TIMING M8390 DATA PATH MODULE - ETCH CUT DWG M8391 MEMORY CONTR. MODULE - DEAWING DIRECTORY M8391 MEMORY CONTR. MODULE ASSY M8391 MEMORY CONTR. MCDULE ASSY - PARTS LIST MEMORY CONTROLLER BLOCK DIAGRAM MEMORY CONTROLLER - CIRCUIT SCHEMATIC MEMORY CONTROLLER MICROCODE FLOWS MEMORY CONTROLLER - ROM AND PALS LISTING MEMORY CONTROLLER - TIMING DIAGRAM M8391 MEMORY CONTR. MODULE - ETCH CUT DWG M8394 WRITEABLE CONTROL STORE MOD. - DRAWING DIRECTORY M8394 WRITEABLE CONTROL STORE MOD. ASSY M8394 WRITEABLE CONTROL STORE MOD. ASSY - PARTS LIST WRITEABLE CONTROL STORE - BLOCK DIAGRAM WRITEABLE CONTROL STORE - CIRCUIT SCHEMATIC WRITEABLE CONTROL STORE - ROM AND PALS LISTING W.C.S. DYNAMIC RAM TIMING DIAGNOSTICS W.C.S. ETCH CUT DRAWING BUS GRANT & NON-PROC GRANT CARD - DRAWING DIRECTORY BUS GRANT & NON-PROC GRANT CARD ASSY BUS GRANT & NON-PROC GRANT CARD - PARTS LIST M9302 UNIBUS TERMINATOR - CIRCUIT SCHEM. 1 MB MEMORY ARRAY FIELD MAINT PRINT SET (COMPLETE)

UNIT VARIATIONS
COVERED BY THIS
PRINT SET
11730-ZA

11730-Z

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MP01270

DRN. DATE USED ON OPTION/MODEL 22MAR82 A. ROCHA TITLE: DATE CHK'D Š FIELD MAINT. PRINT SET R. MORIN 13APR82 CHG. 11730-Z PROJ. ENG. DATE R. MORIN 13APR82 SIZE TC NUMBER REV. B DATE 11730-Z-1 Α FIELD SERV. DATE DIST. SHEET OF 2 21 APK 82

DRB 124

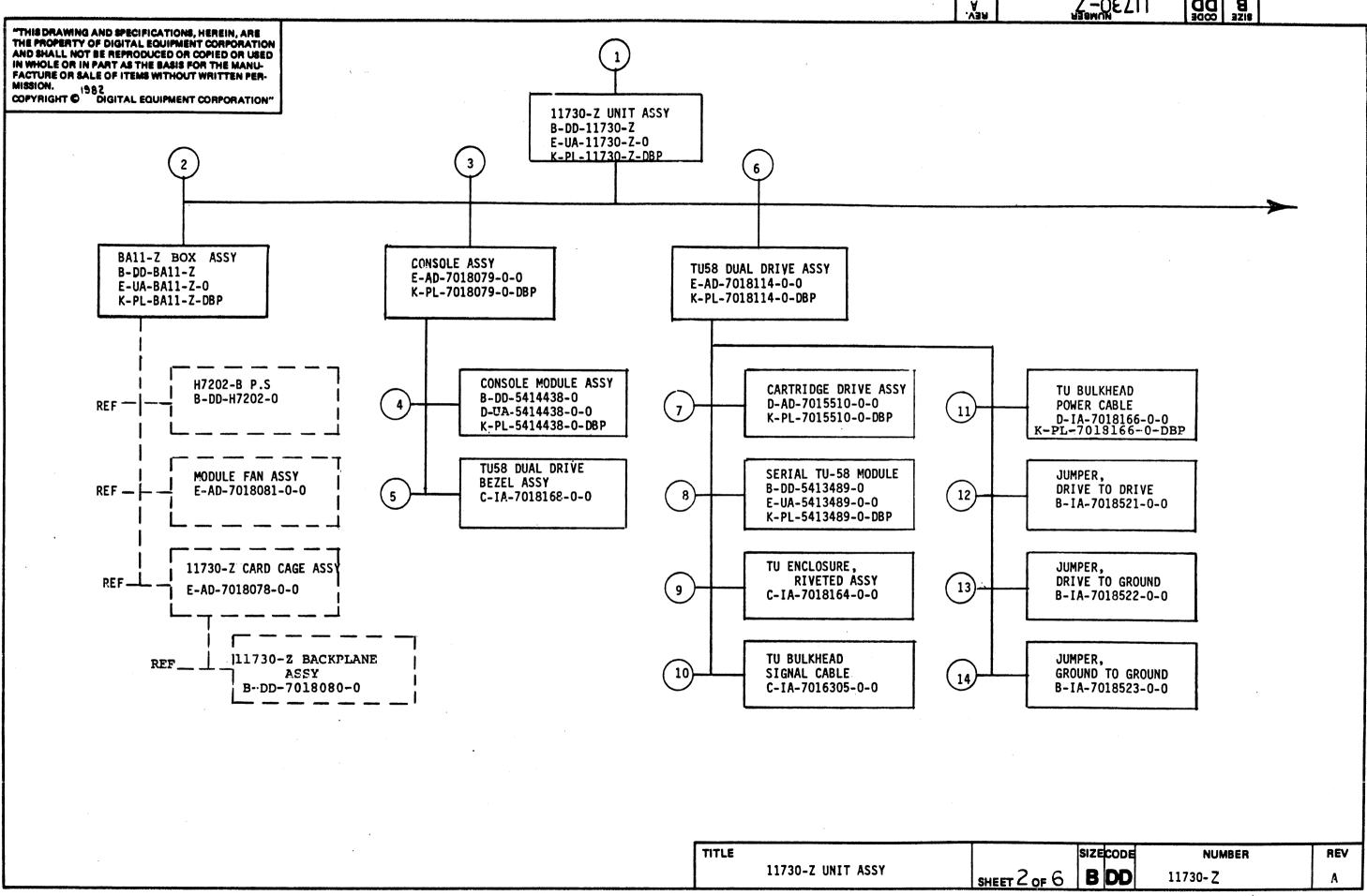
11730- 2-1

DRAWING DIRECTORY

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UNIT VARIATIONS								
VAR	TITLE							
1730-ZA	BA11-ZA, KA730-A, MS730-CA, 120V/240V							
								
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	REV.		USED ON OPTION/MODEL	DRN. Pormorein	1	TITLE	digital
- S	NO.		11730-Z	CHK'D.	DATE	11730-Z UNIT ASSY	
REVISIONS	NGE			Pomorin	ZEB82		
REV	용			PROJ. ENG.	DATE	SIZE CODE NUMBER	REV
		<u></u>		PROD A	DATE	B DD 11730-Z	A
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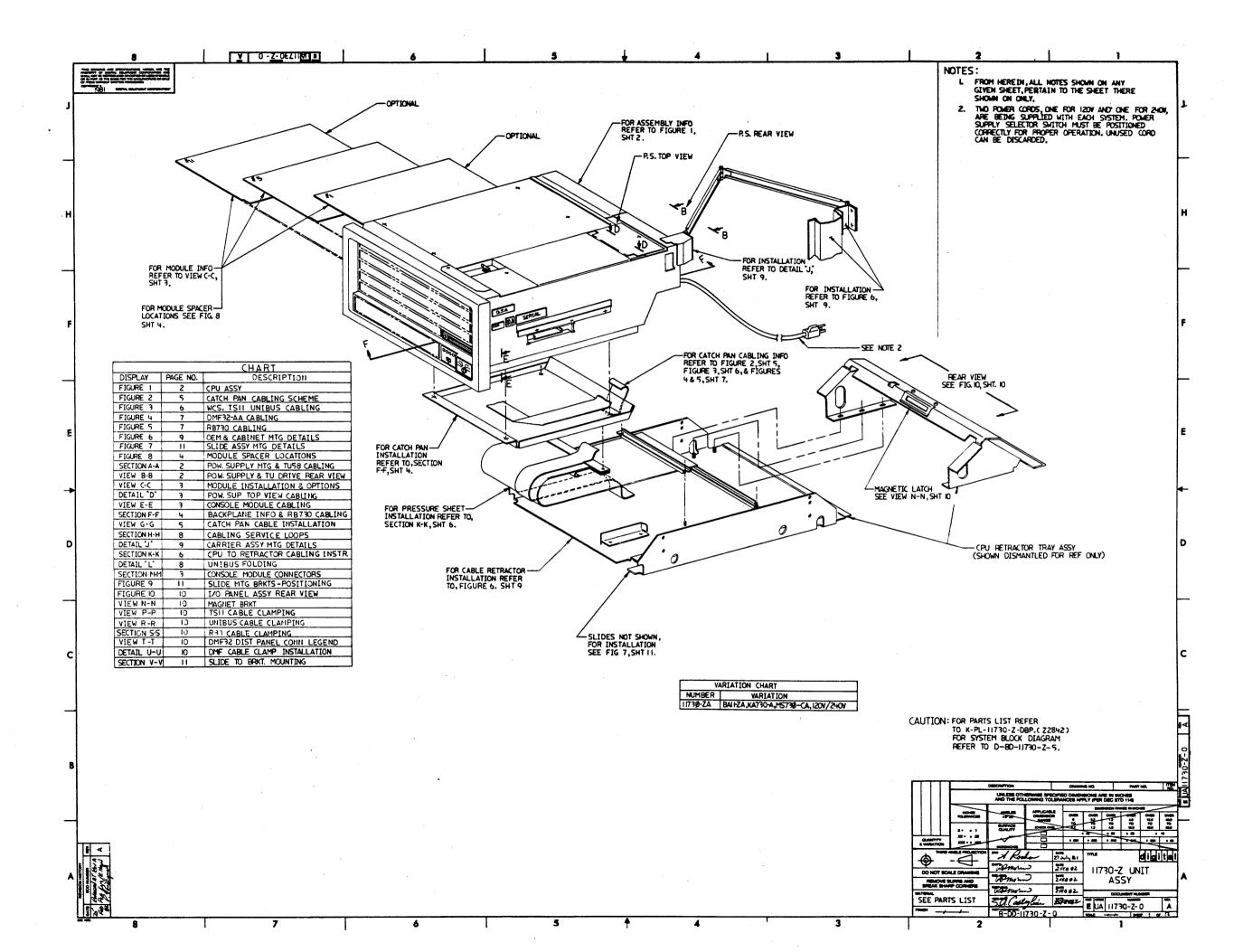


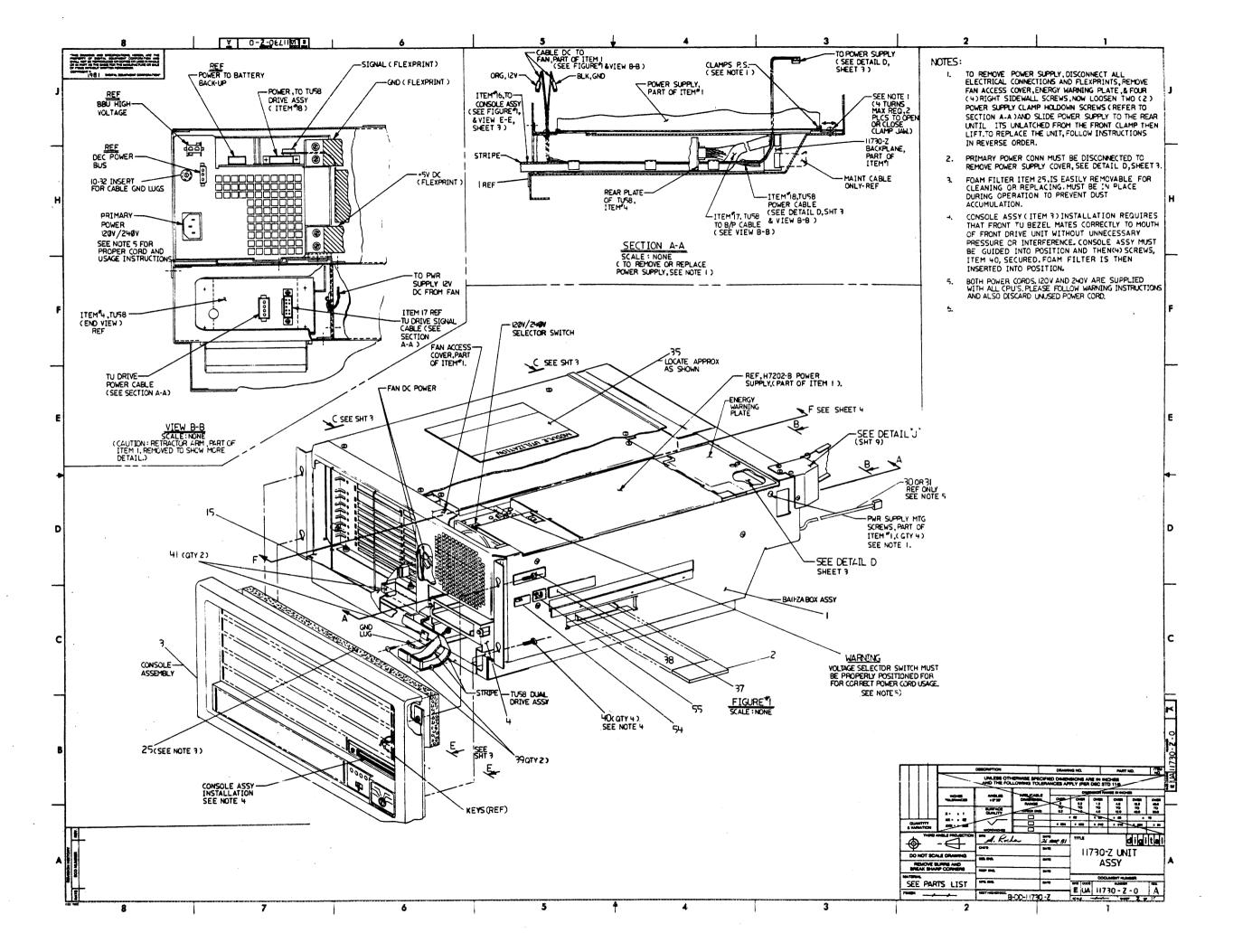
11730-Z B DD 3zis "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANU-FACTURE OR SALE OF ITEMS WITHOUT WRITTEN PER-MISSION. 1982 COPYRIGHT DIGITAL EQUIPMENT CORPORATION" 25 15 11730 MODULE SET CPU CABLE RETRACTOR ASSY B-DD-KA730-0 E-AD-7018779-0-0 BUS GRANT & NON-PROC K-PL-KA730-A-DBP K-PL-7018779-0-DBP CABLE ASSY GRANT CARD CATCH PAN ASSY (19 (22) B-DD-G7273-0 (10 COND. RIBBON) C-IA-7018720-0-0 (30) D-UA-G7273-0-0 D-IA-7011411-0-0 K-PL-7018720-0-DBP K_DI_C7273_0_DRP RETRACTOR TRAY. PRESSURE SHEET ASSY DATA PATH MODULE UNIBUS TERMINATOR TU58 POWER CABLE RIVETED ASSY C-IA-7018718-0-0 B-DD-M8390-0 (26) (16) (20) D-IA-7018109-0-0 B-DD-M9302-0 (23)(31) D-IA-7018549-0-0 K-PL-7018718-0-DBP D-UA-M8390-0-0 D-UA-M9302-0-0 K-PL-7018109-0-DBP K-PL-7018549-0-DBP K-PL-M8390-0-DBP K_DI_MQ302_0_DRP IMB MEMORY ARRAY MODULE MEMORY CONT. MODULE CABLE ASSY CLAMP ASSY B-DD-M8391-0 B-DD-MS730-C CLAMP ASSY (25/26 COND. RIBBON (17) (27 C-IA-7018772-0-0 (21) (24) B-PL-MS730-C-0 D-UA-M8391-0-0 32 C-IA-7018074-0-0 C-IA-7018772-0-0 K-PL-7018772-0-DBP K-PL-M8391-0-DBP K-PL-7018772-0-DBP WRITABLE CONTROL PKG, CPU, 11730-ZA MOS MEMORY ARRAY CPU-I/O PANEL ASSY STORE MODULE (28 B-DD-M8750-0 (33) A-PS-3700662-0-0 D-AD-7018778-0-0 (18)B-DD-M8394-0 (34 D-UA-M8750-0-0 K-PL-7018778-0-DBP D-UA-M8394-0-0 K-PL-M8750-CA-DBP K-PL-M8394-0-DBP UNIBUS FILLER BRKT ASSY (29) B-IA-7018781-0-0 K-PL-7018781-0-DBP SIZECODE REV NUMBER 11730-Z UNIT ASSY 11730-Z B DD SHEET 3 OF 6 Α

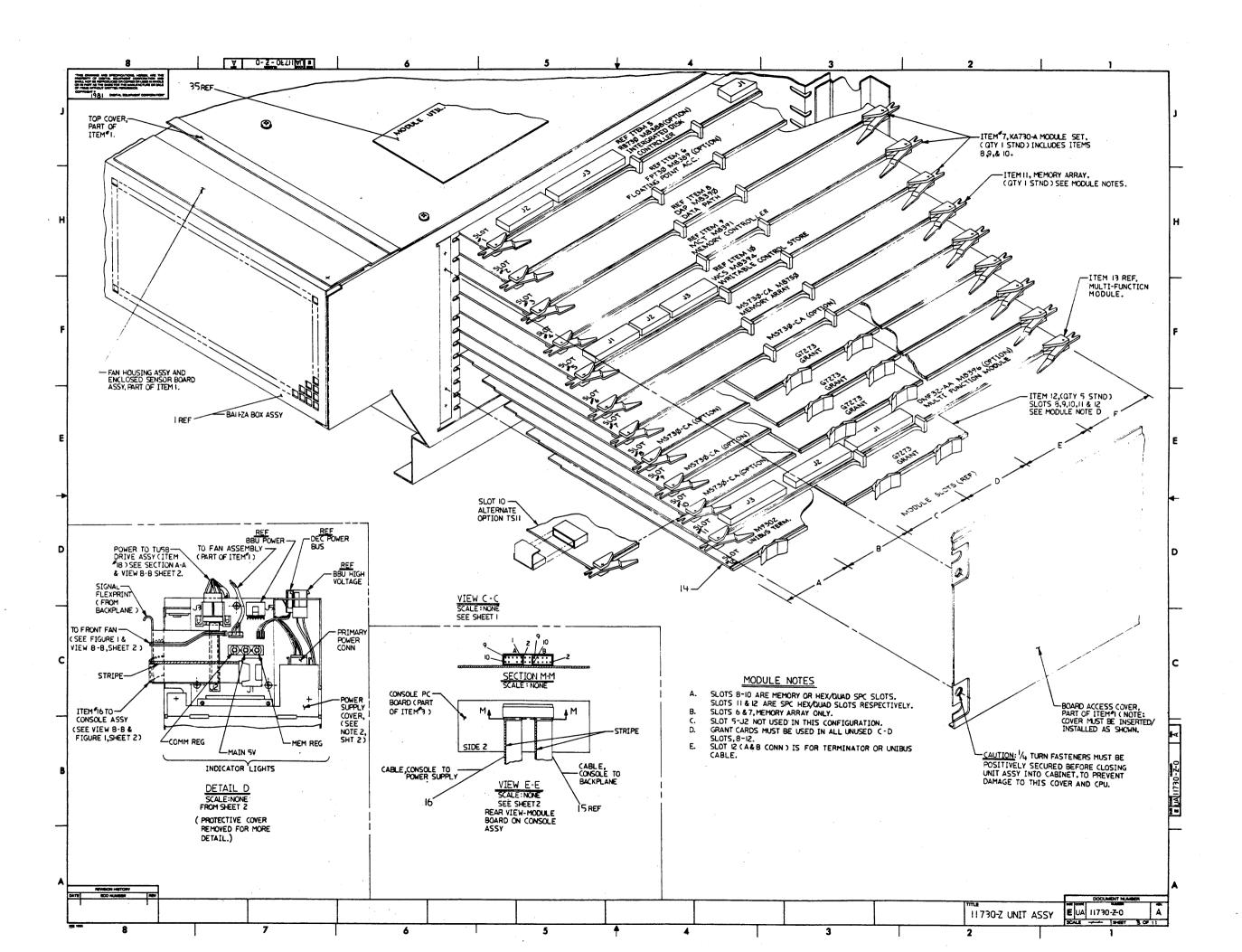
TIND NO.	DRAWING NO.	DESCRIPTION	TYPE	ON CINID	DRAWING NO.	DESCRIPTION	TYPE
	MP01270	FIELD MAINTENANCE PRINT SET (MP)	_	5	. C-IA-7018168-0-0	TU58 DUAL DRIVE BEZEL ASSY	
	B-TC-11730-Z-1	FIELD MAINTENANCE PRINT SET (TC)	-	 	D-MD-7425270-0-0	BEZEL FRONT TU	N
	B-DD-11730-Z	11730-Z UNIT ASSY - DRAWING DIRECTORY	-	 	B-MD-7425341-0-0	TU.LED BUTTON	N
	E-UA-11730-Z-0	11730-Z UNIT ASSY	E/M	1			
	K-PL-11730-Z-DBP	11730-Z UNIT ASSY - PARTS LIST -Z28		 			
	B-PL-11730-Z-2	11730-Z SHIPPING LIST	-	6		TU58 DUAL DRIVE ASSY	E/
	B-PL-11730-Z-3	11730-Z HARDWARE KIT LIST	M	 _	K-PL-7018114-0-DBP	TU58 DUAL DRIVE ASSY - PARTS LIST - Z1352	7
\perp	D-BD-11730-Z-5	11730 SYSTEM BLOCK DIAGRAM	-	 	D-IA-7423933-0-0	PLATFORM.TU58	М
\bot	€-PS-1209856-0-0	MODULE HOLDER	<u> </u>		B-MD-7424846-0-0	TU CENTER BRACE	M
	A-PS-1217665-0-0	FILTER FOAM	М	 	D-MD-7424848-0-0	TU, BOTTOM PLATE	М
	A-PS-1218166-0-0	SLIDE (PAIR) W/HDW	М	l L	A-PS-1118799-0-0	LED CABLE ASSY	E/
	A-PS-1219020-0-0	CARRIER, CABLE	M	IL.			
	A-PS-1215700-0-0	CABLE, FERRULED	М	_			
	A-PS-3615809-0-0	MEDIA CARTRIDGE, TU58-K	М	12	D-AD-7015510-0-0	CARTRIDGE DRIVE ASSY	E/
	D-MD-7425374-0-0	BRACKET, SLIDE MOUNTING	М		K-PL-7015510-0-DBp	CARTRIDGE DRIVE ASSY - PARTS LIST - Z1620	
	B-IA-7426335-0-0	PLATE, STUD	M				
	C-MD-7413659-0-0	BRACKET, SHIPPING	M				
	C-MD-7425927-0-0	GUIDE AND CLAMP	М	8	. B-DD-5413489-0	SERIAL TUSS MODULE ASSY - DRAWING DIRECTORY	
	C-MD-7425928-0-0	BRACKET, CARRIER/BOX	M		E-UA-5413489-0-0	SERIAL TUSE MODULE ASSY	P/
\Box	C-MD-7425929-0-0	BRACKET, CAB/CARRIER	M		K-PL-5413489-0-DBP	SERIAL TUS8 MODULE ASSY - PARTS LIST - Z0582	E/
	D-MD-7426623-0-0	CLAMP,R80 CABLE	М		D-CS-5413489-0-1	SERIAL TU58 MODULE ASSY - CIRCUIT SCHEMATIC	Е
	D-IA-7426625-0-0	CLAMP, DMF CABLE	М	 			
	B-IA-7426723-0-0	BAR CLAMP ASSY	М	<u> </u>			
			-	وا	C-IA-7018164-0-0	TU ENCLOSURE RIVETED ASSY	М
					E-IA-7424845-0-0	TU ENCLOSURE	м
\dashv				-	C-MD-7424847-0-0	TU BACKPLATE	м
2.	B-DD-BAll-Z	BA11-Z BOX ASSY -DRAWING DIRECTORY			0. C-IA-7016305-0-0		
2.	E-UA-BAll-Z-0	BA11-Z BOX ASSY	E/M	 _ `	0. C-1A-7016305-0-0	TU BULKHEAD SIGNAL CABLE	E/1
\dashv	K-PL-BAll-Z-DBP	BA11-Z BOX ASSY - PARTS LIST - Z1862	- H/H	├ ─			
\dashv	K-FI-BAII-2-UBF	DAIL-A DON ROD! TIME 2121 2202		 -	1. D-IA-7018166-0-0		
\dashv				╽┝╌╋┅		TU BULKHEAD POWER CABLE	E/I
. +	E-AD-7018079-0-0	CONSOLE ASSY	E/M		K-PL-7018166-0-DBP	TU BULKHEAD POWER CARLE - PARTS LIST - 21854	
3: 	K-PL-7018079-0-DBP	CONSOLE ASSY - PARTS LIST - Z1827	2/14	-			
\dashv	A-PS-1216178-0-0	LOCK, ASSY PLASTIC (6 POS)	м	-			
-+				-	2. B-IA-7018521-0-0	JIMPER, DRIVE TO DRIVE	М
-	A-PS-1217094-0-0	BEZEL, 10.5 IN.		┟├─			
-+	A-PS-1217665-0-0	FILTER, FOAM INSERT	M	-			
\dashv	E-IA-7424269-0-0 E-IA-7424832-0-0	CONSOLE, INSERT MOUNTING PLATE, 10.5 IN.	M	1	3. B-IA-7018522-0-0	JUMPER, DRIVE TO CROUND	M
\dashv	D-MD-7426334-0-0	SHIELD					
\dashv	D-MD-1420334-0-0	V11 24 24 24 24 24 24 24 24 24 24 24 24 24	M	1	1 PT. 7019522 2 2		
\dashv					4. B-IA-7018523-0-0	JUMPER GROUND TO GROUND	M
4.	B-DD-5414438-0	CONSOLE MODULE ASSY - DRAWING DIRECTORY	_	\vdash			
				1	B DD 81720 -		
+	D-UA-5414438-0-0	CONSOLE MODULE ASSY CONSOLE MODULE ASSY - PARTS LIST	E/M	╟╩	5. B-DD-KA730-A	11730 MODULE SET - DRAWING DIRECTORY	
\dashv	K-PL-5414438-0-DBP		E	-	K-PL-KA730-A-DBP	11730 MODULE SET - PARTS LIST	=
YPE	D-CS-5414438-0-1 E ELECTRICAL M MECHANICAL	CONSOLE MODULE ASSY - CIRCUIT SCHEMATIC		TIT	<u> </u>		REV

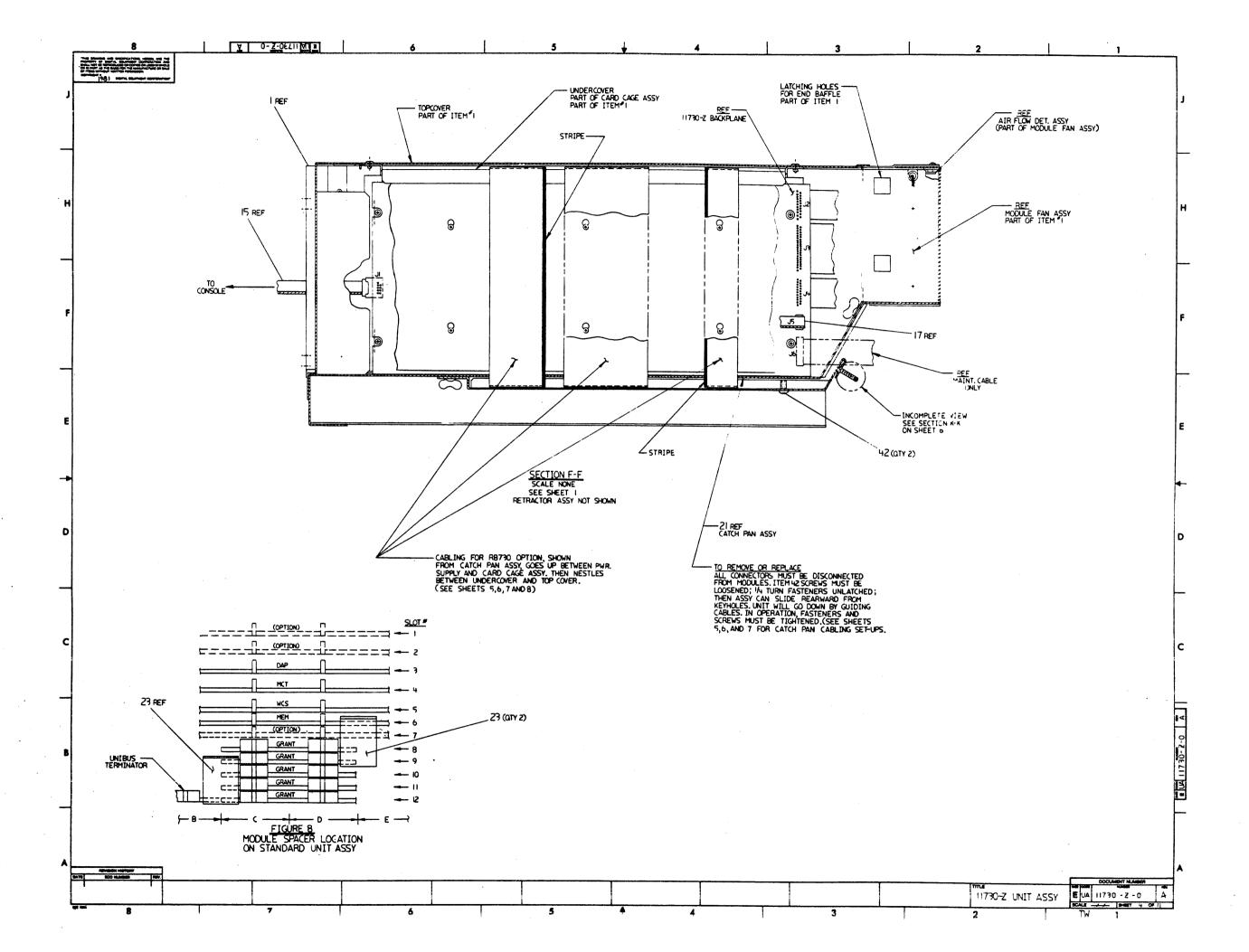
FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	EIND NO		DESCRIPTION	TYPE
16	B-DD-M8390-0	M8390 DATA PATH MCDULE - DRAWING DIRECTORY	_	25	E-AD-7018779-0-0	CPU CABLE RETRACTOR ASSY	M
	D-UA-M8390-0-0	M8390 DAP MCDULE ASSY	E/M		K-PL-7018779-0-DBP	CPU CABLE RETRACTOR ASSY (PARTS LIST) -Z3612	- 17
	K-PL-M8390-0-DBP	M8390 DAP MODULE ASSY (PARTS LIST)			E-IA-7425733-0-0	TRAY, R.H. HALF	- -
	D-CS-M8390-0-1	M8390 DAF MODULE - CIRCUIT SCHEMATIC	E		E-IA-7426619-0-0	BRACKET, I/O PANEL (RT AND LT)	M M
					E-IA-7426618-0-0	PANEL, I/O PORT	M
					C-1A-/426620-0-0	BRACKET, MAGNET	M
17	B-DD-M8391-0	M8391 MEMORY CONTROLLER MODULE DWG DIRECTORY	-		C-MD-7426621-0-0	COVER PLATE, R80 HOLE	M
	D-UA-M8391-0-0	M8391 MCT MODULE ASSY	E/M		B-IA-7426652-0-0	PLATE, NUT	- <u> </u>
	K-PL-M8391-0-DBP	M8391 MCT MODULE ASSY (PARTS LIST)	-		D-MD-7426407-01-DBU	PANEL, DOUBLE BLANK	М
	D-CS-M8391-0-1	M8391 MCT MODULE- CIRCUIT SCHEMATIC	Ε		A-PS-1212908-0-0	DOOR CATCH, MAGNETIC	M
10	B-DD-M8394-0	MOSON MULTABLE CONTROL STORE MODULE - DWG DLD			5 0 14 7010540 0 0		
10	D-UA-M8394-0-0	M8394 WRITABLE CONTROL STORE MODULE - DWG DIR. M8394 WCS MODULE ASSY	E/M	126	5 D-IA-7018549-0-0 K-PL-7018549-0-DBP	RETRACTOR TRAY - RIVETED ASSY	M
	K-PL-M8394-0-DBP	M8394 WCS MODULE ASSY (PARTS LIST)		-	D-MD-7425729-0-0	RETRACTOR TRAY - RIVETED ASSY (PARTS LIST) - 22446	-
				-		GUIDE, CABLE	M
	D-CS-M8394-0-1	M8394 WCS MODULE - CIRCUIT SCHEMATIC	E	\vdash	E-IA-7425732-0-0	TRAY, L.H. HALF	M
				27	7 C-IA-7018772-0-0	CLAMP ASSY	М
19	B-DD-G7273-0	BUS GRANT AND NON-PROCESSOR GRANT CARD - DWG DIR.	-		K-PL-7018772-0-DBP	CLAMP ASSY (PARTS LIST) -Z3325	-
	D-UA-G7273-0-0	GRANT CARD ASSY	E/M		C-MD-7425711-0-0	CLAMP, CABLE	M
	K-PL-G7273-0-DBP	GRANT CARD ASSY (PARTS LIST)		-	B-MD-7426358-0-0	FOAM, ADH-BACKED	M
				28	B D-AD-7018778-0-0	CPU - I/O PANEL ASSY	M
20	B-DD-M9302-0	UNIBUS TERMINATOR - DRAWING DIRECTORY	- 1		K-PL-7018778-0-DBP	CPU - I/O PANEL ASSY (PARTS LIST) -Z3616	
	D-UA-M9302-0-0	UNIBUS TERMINATOR ASSY	E/!1		D-IA-7426405-04-DBU	PLATE, SEXTAL, CPU - I/O	M
	K-PL-M9302-0-DBP	UNIBUS TERMINATOR ASSY (PARTS LIST)	-		C-IA-7426654-0-0	BRACKET, CABLE GRD	M
	D-CS-M9302-0-1	UNIBUS TERMINATOR ASSY - CIRCUIT SCHEMATIC	E		A-PS-1219534-0-0	SCREW, CAPTIVE	11
					A-PS-1217431-0-0	CONN, D SUB, 25 PIN FILTERED	M
					A-PS-1211591-0-0	CONN, ZIF, 40 CONDUCTOR	E/N
	B-DD-MS730-C	MS730 MEMORY ARRAY MODULE - DRAWING DIRECTORY	-				
	K-PL-MS730-C-DBP	MS730 MEMORY ARRAY MODULE ASSY - PARTS LIST		29	B-IA-7018781-0-0	BRACKET ASSY, UNIBUS FILLER	M
				<u></u>	K-PL-7018781-0-DBP	BRACKET ASSY, UNIBUS FILLER (PARTS LIST) Z3618	-
					D-MD-7426624-0-0	PLATE, UNIBUS FILLER	M
				-	B-MD-7426653-0-0	FOAM PAD, CABLE CLAMP	М
22	D-IA-7011411-0-0	CABLE ASSY - 10 COND. RIBBON	E/!:				
	7.7.			30	C-IA-7018720-0-0	CATCH PAN ASSY	M
	·				K-PL-7018720-0-DBP	CATCH PAN ASSY (PARTS LIST) -Z2835	- -
23	D-IA-7018109-0-0	CABLE TU58 POWER	E/!1		E-IA-7425728-0-0	CATCH PAN	M
	K-PL-7018109-0-DBP	CABLE, TU58 POWER (PARTS LIST) - Z1853	-				
24	C-IA-7018074-0-0	CABLE ASSY - 25/26 COND RIBBON	E/M	_			
			-, \				
TVPF	E ELECTRICAL			7	15		
1175	M MECHANICAL	di	gital	TITI		SHEET 5 OF 6 B DD 11730-7	REV
	E/M ELECTRO/MECHANICAL		التتنيك		11730-Z UNIT ASS	SHEET 5 OF 6 B DD 11730-Z	A

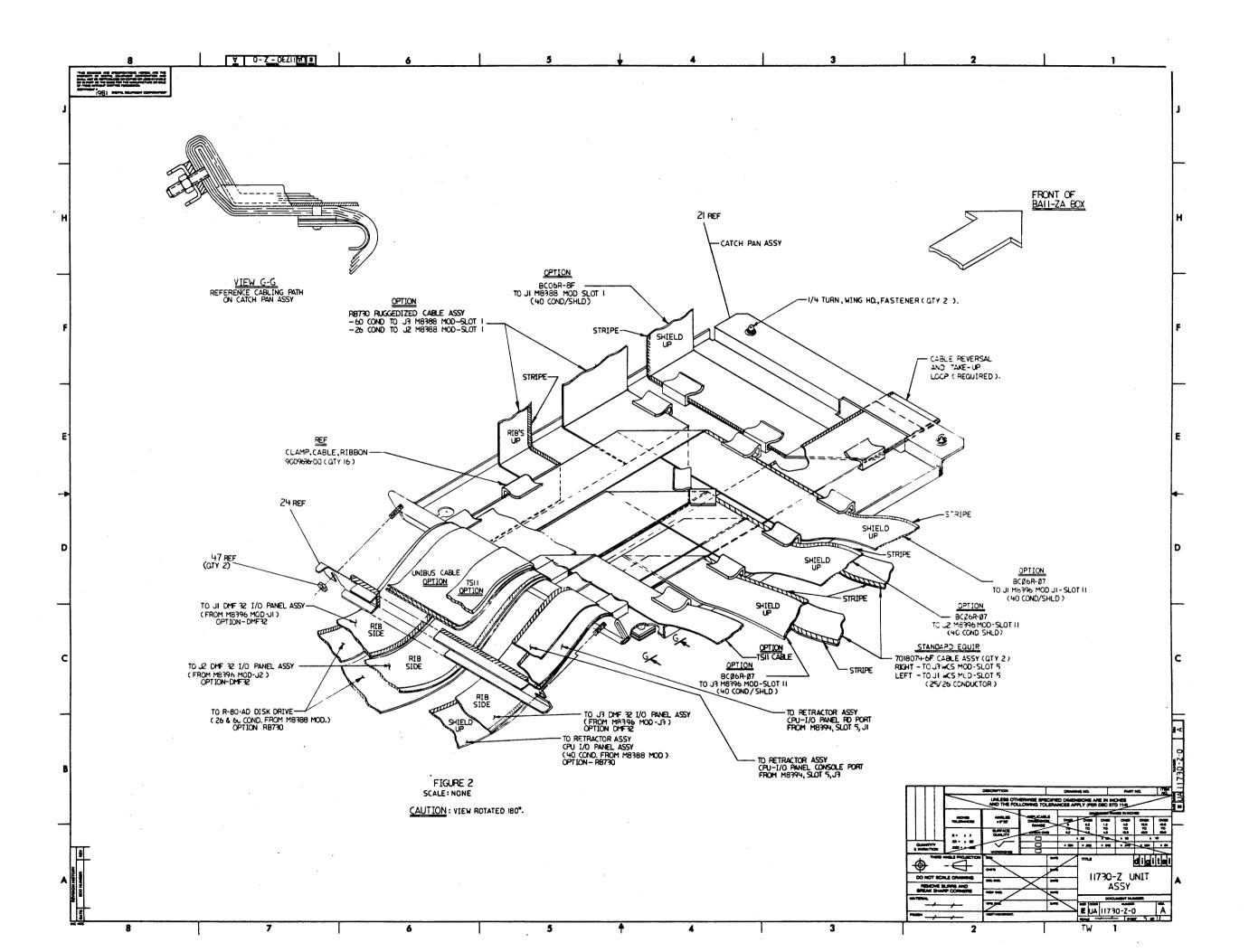
FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
				<u> </u>			
31	C-IA-7018718-0-0	PRESSURE SHEET ASSY (PARTS LIGHT) - FOCIO	M				
	K-PL-7018718-0-DBP C-MD-7425726-0-0	PRESSURE SHEET ASSY (PARTS LIST) - Z2618 SHEET, PRESSURE	- M	 			
			M	 			
	C-MD-7425730-0-0	CLAMP, SHEET	m	 			
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22	C-IA-7018772-0-0	CLAMP ASSY	м				
32	K-PL-7018772-0-DBP	CLAMP ASSY (PARTS LIST) -Z3325	-				
	C-MD-7425711-0-0	CLAMP, CABLE	M				
	B-MD-7426358-0-0	FOAM, ADH-BACKED	м	 			
	B-MD-7 420338-0-0	TOBIL, AUITONIALI	17				
						• •	
_33	A-PS-3700662-0-0	PKG, CPU, 11730-ZA	М				
34	B-DD-M8750-0	1 MB MOS MEMORY ARRAY - DRAWING DIRECTORY					
	D-UA-M8750-0-0	1 MB MOS MEMORY ARRAY	E/M	 			
	K-PL-M8750-CA-DBP D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - PARTS LIST		 			
	D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - CIRCUIT SCHEM.	E	 			
				 			
					 		
							
							
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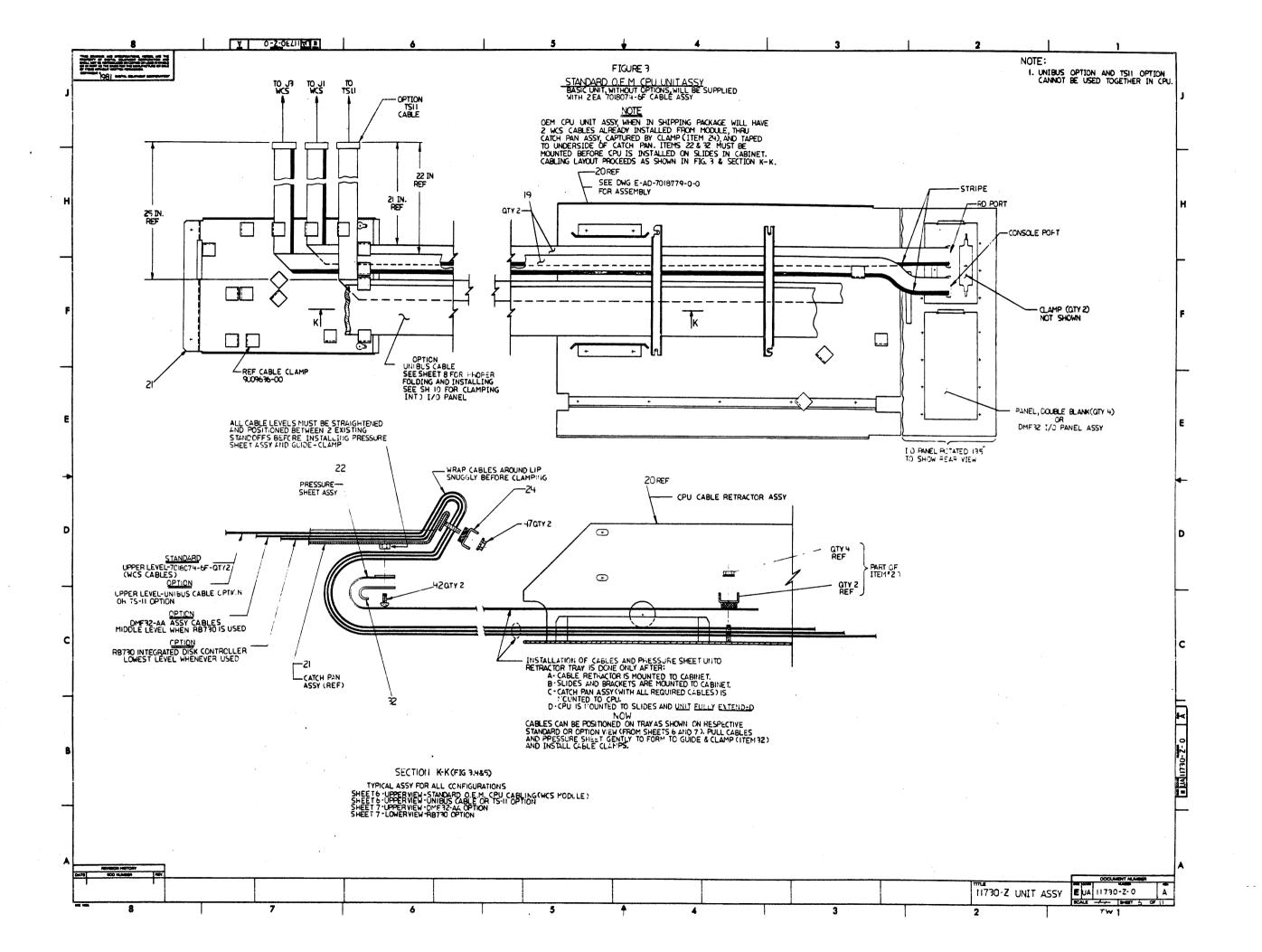


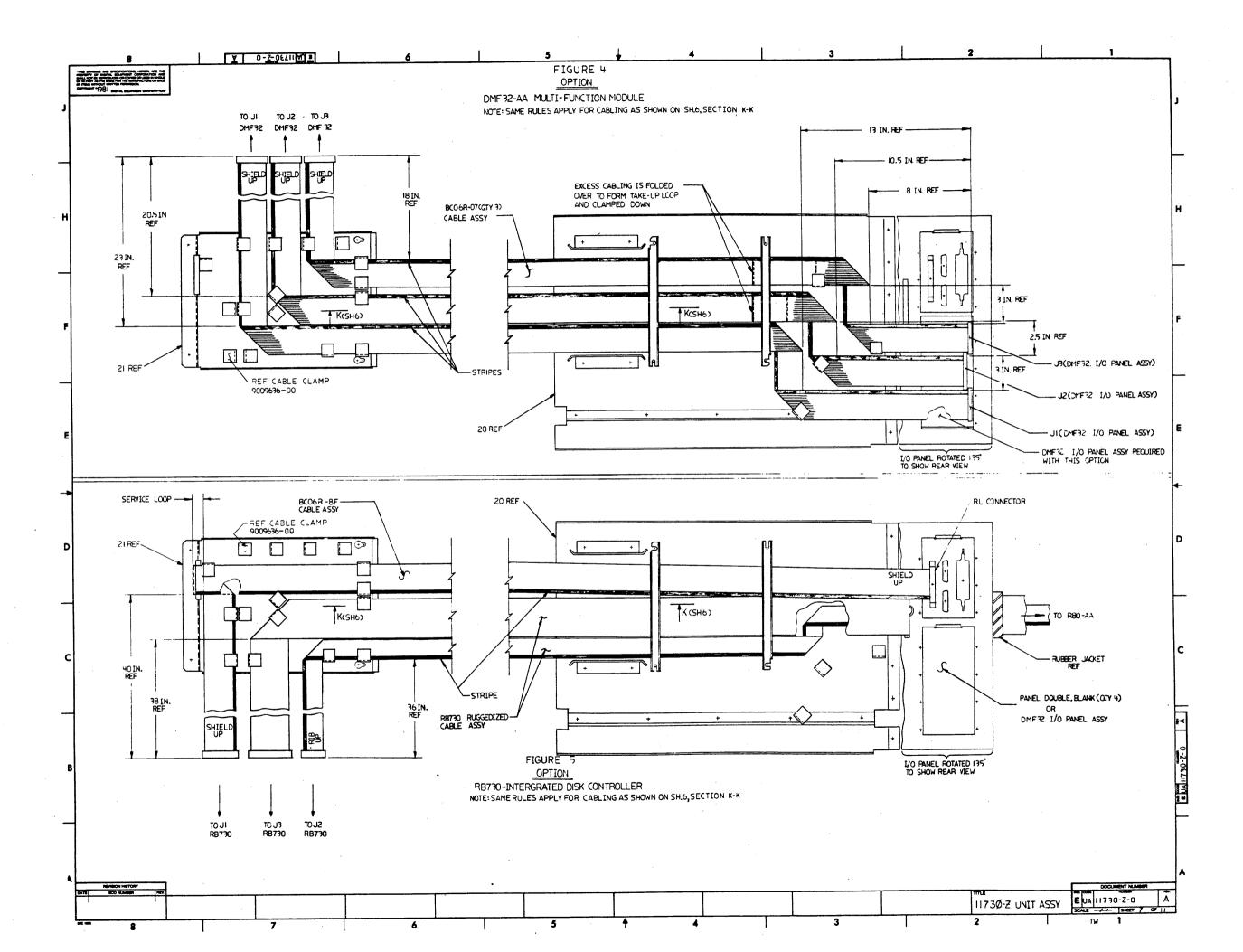


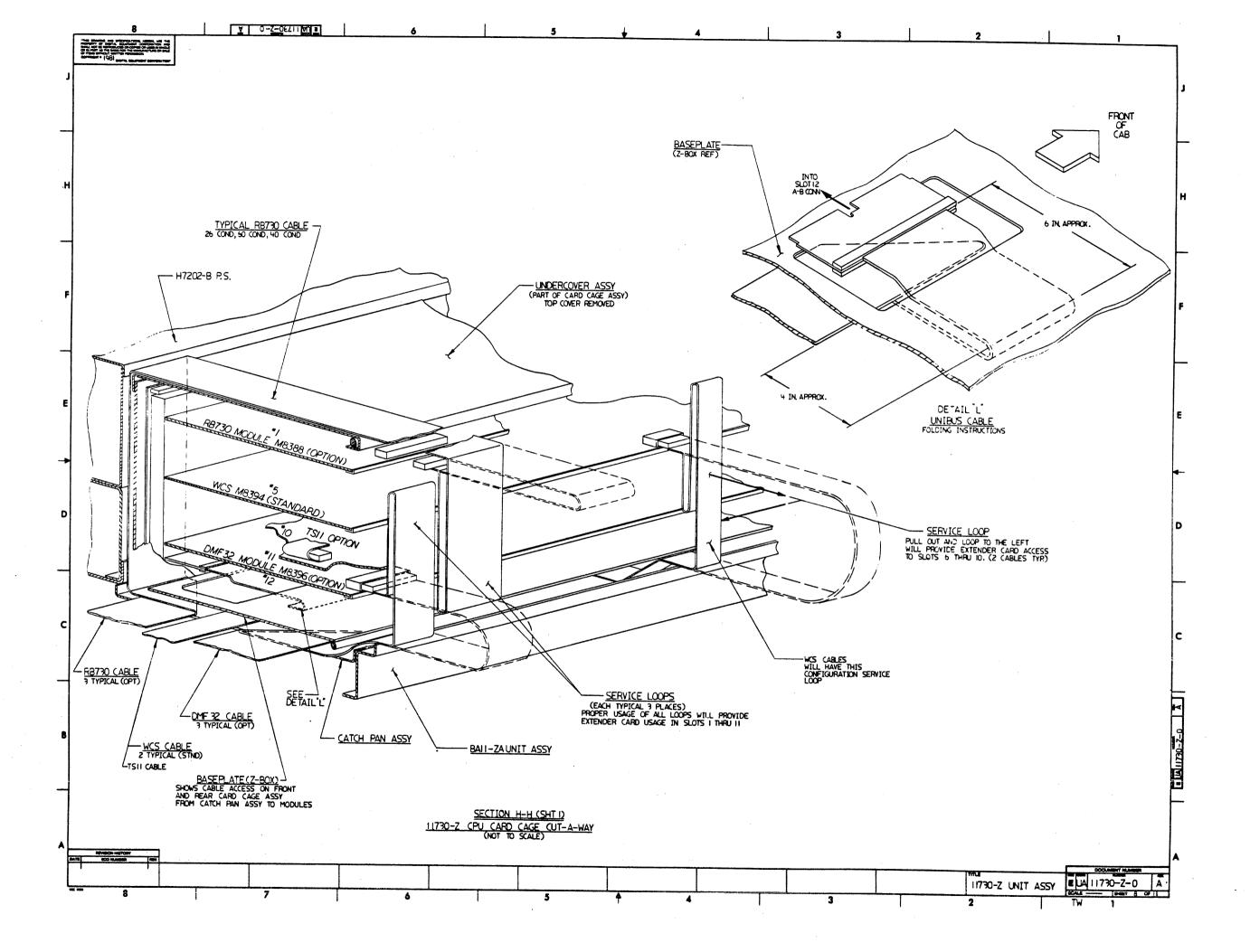


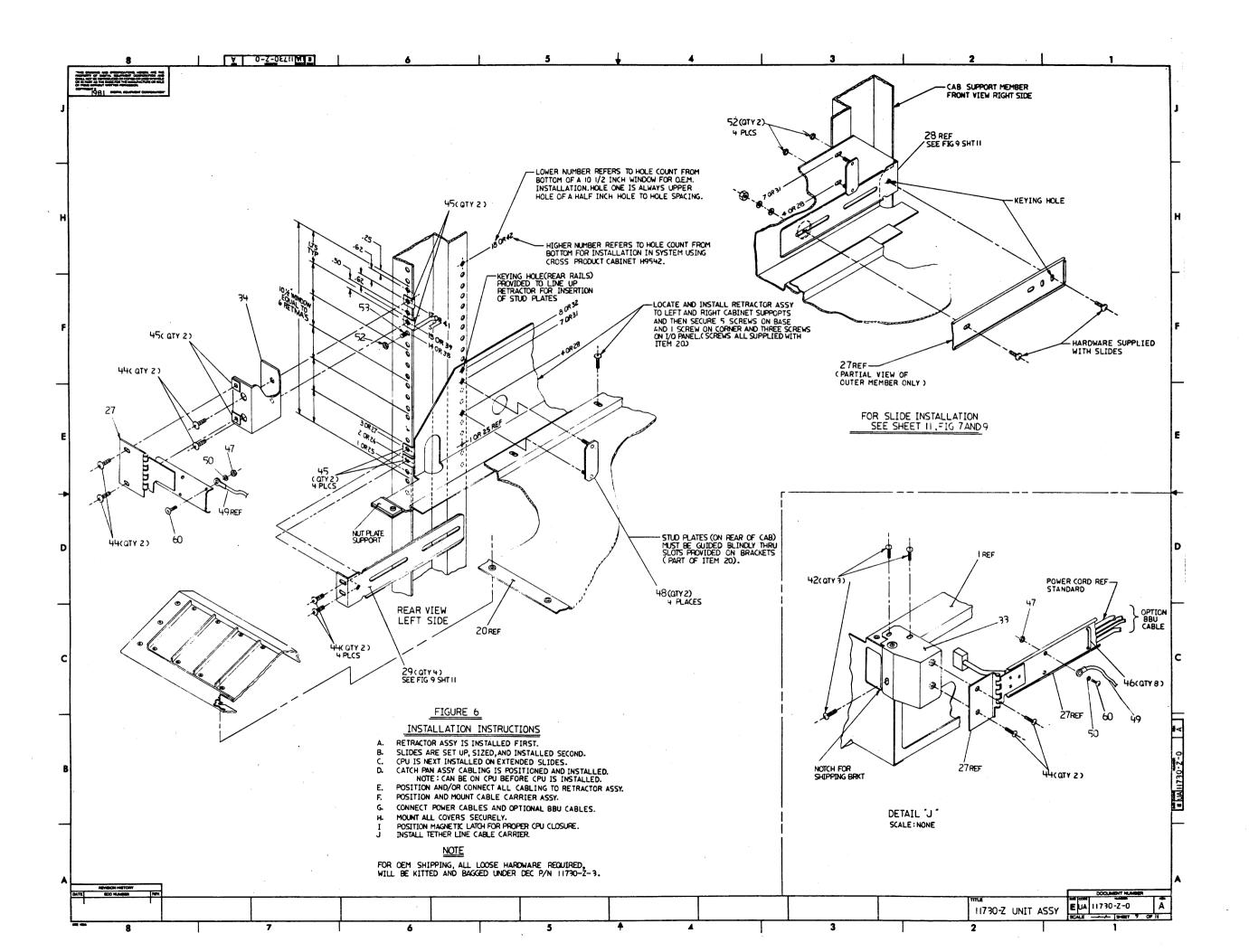


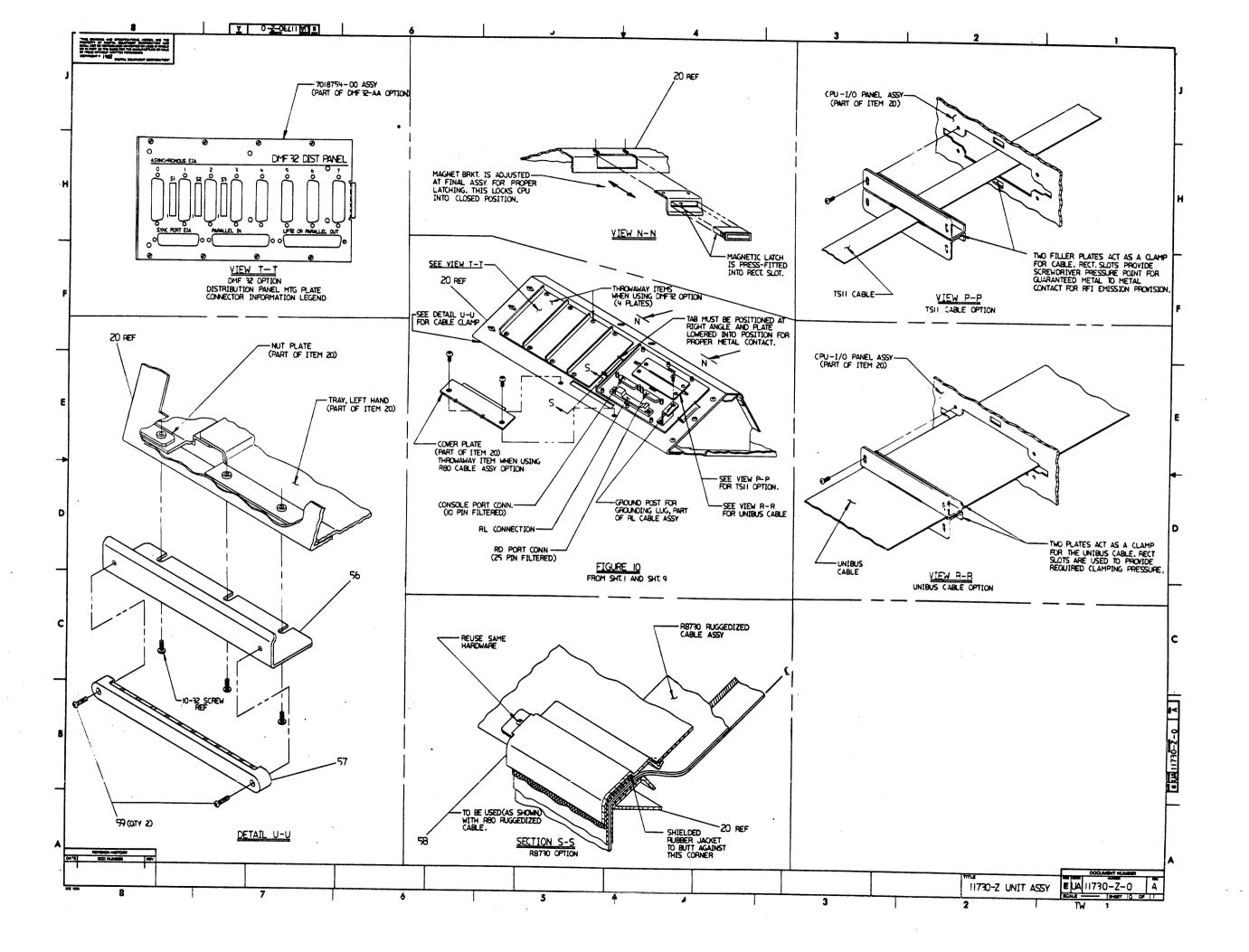


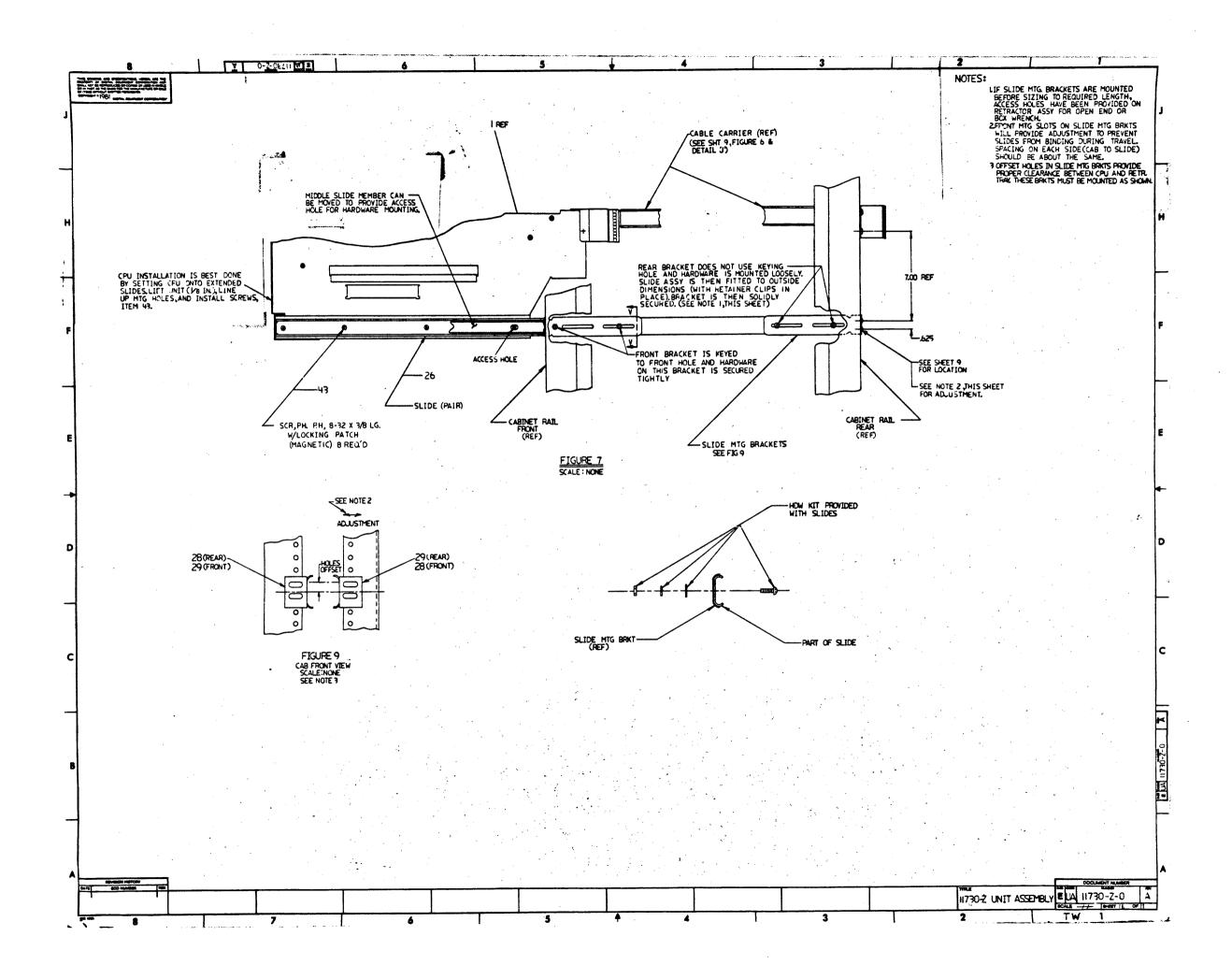












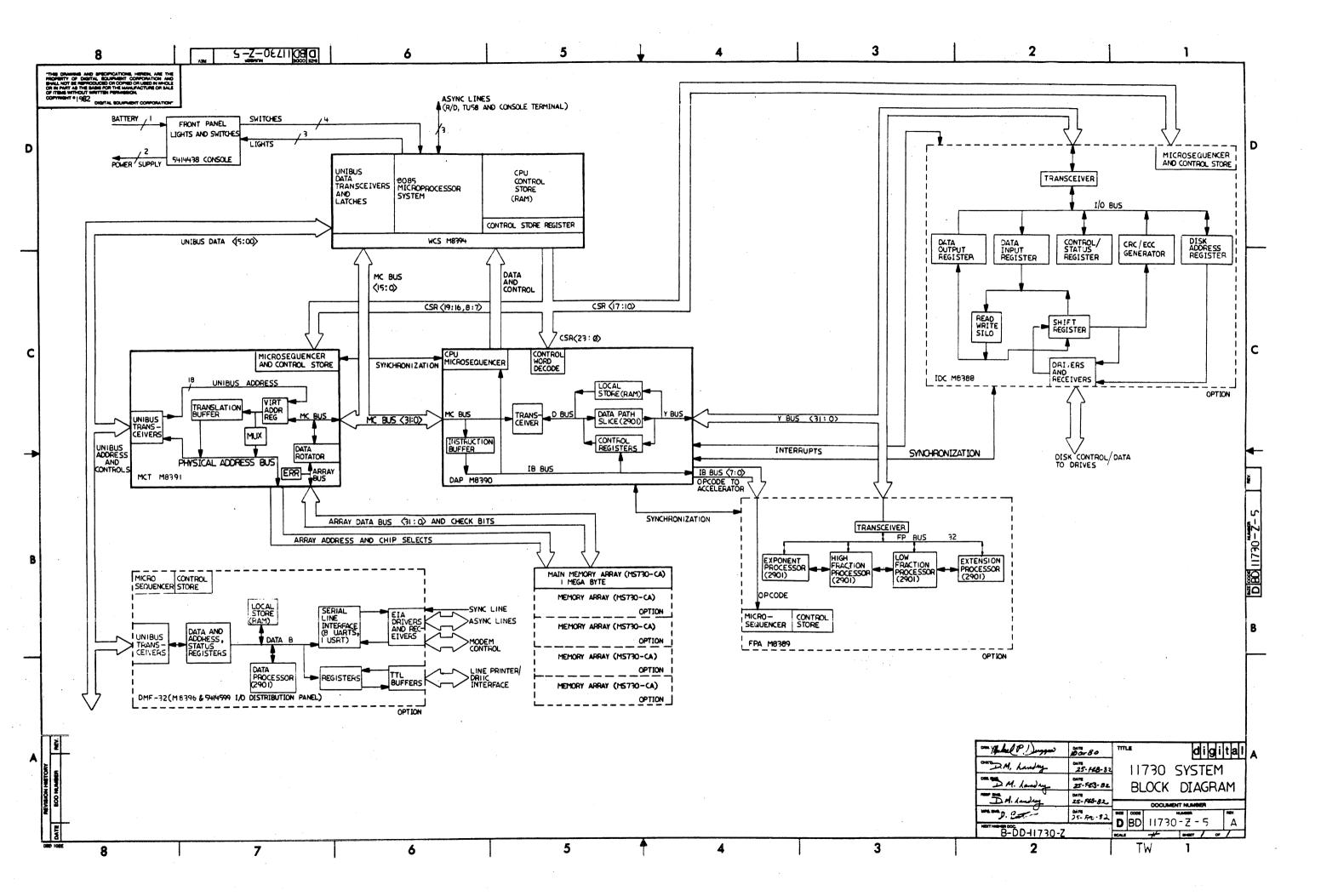
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	LINE ITEM	DOCUMENT NU	MBER	PART NUMBER	DESCRIPTION		ZA .	ER TARIALIUM		
	1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 27 27 28 28 29 30 30	8-DD-G7273- 8-DD-DMF32- B-DD-M9302- D-IA-701141 D-IA-701141 D-IA-701810 C-IA-701877 C-IA-701877 C-IA-701871 A-PS-120985 C-IA-701877 A-PS-121766 A-PS-121816 A-PS-121902	9-0-0 4-3-0 9-0-0 9-0-0 0-0 0-0 0-0 0-0 1-0 1	### ### ### ### ### ### ### ### ### ##	TAPE, MAGNETIC CONSOLE ASSY DUAL TUSS DRI INTEGRATED DI FLOATING POIN CPU MOD SET DAP (DATA PAT MCT (MEMORY C WRITEABLE CON IMB MOS MEM E BUS GRANT. & N 8 EIA ASYNC S UNIBUS TERMIN CABLE, CONSOL CABLE, CONSOL CABLE, CONSOL TUSS POWER CA BERG TO D SUB CPU CABLE RET CATCH PAN ASS PRESSURE SHEE CLIP, MODULE CLAMP ASSY FILTER, AIR FO CHASSIS SLIDE CABLE CARRIER SCIDE MOUNTIN SLIDE MTG BRA PWR CORD, TERM	VE ASSY. SK CONTROL FOR 1: I PROCESSOR (M838 H) ONTROLLER) HEX IROL STORE, HEX, FO CC MEYORY EXPANSI ON-PROCESSOR GRAN LU, SYNC SLU, PARAN ATOR E BACKPLANE E BACKPLANE E BACKPLANE E BACKPLANE E BACKPLANE HOLDER W/O SEPAR AN 023PP: 1 ASSY. HOLDER W/O SEPAR AN 023PP: 24.88 EXTENDED I G BRACKET, RIGHT CKET LEFT . 84IN, 18-3 125V	X 1. 1 1 188 REF 39) REF 1 REF REF 1 TT 5 LE REF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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	i i			•	RESP.ENG.:		I IDATE: 24-FEB- I	! 32	DOCUMENT NUMBER	REV I
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TAKOTUA	SD BY PRTLST.3P(44)		PARTS LIST		SHEET AZ OF AZ
LINE IT	EN DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION ZA	•
31	31 A-PS-1700083-0-0	1700783-21	PWR CORD, TERM. 84IN, 18-3 250V 6	1	•
	32 C-MD-7425927-0-0	7425927-00	GUIDE + CLAMP	$ar{\mathbf{i}}$	•
33	33 C-IA-7425928-Ø-Ø	7425928-00	BRACKET, CARRIER/BOX	1 .	•
34	34 C-MD-7425929-Ø-Ø	7425929-00	BRACKET, CABINET/CARRIER	1 :	
. 35	35" A-PS-3618537-2-0	3618537-01	LABEL, MODULE UTILIZATION	1:	
	36	BET173A-DE	VAX 11738 CONCOLE	1	•
37	37 A-PS-361788Ø-Ø-Ø	3617880-09	LABEL, NON-COMPLIANT FCC	1:	
	38 A-DC-3617674-9-9	3617674-00	LABEL, SERIAL & POWER, UNIVERSAL	1.	
	39	9009701-00	SCREW, PAN, PHIL, SEMS 6-32X .312L	2	
	40	9006075-03	SCREW, TRUS, PHIL, 19-32X 3/4	4	
	41.	9009636-00	CLAMP, CABLE, FOR FLAT CABLE	. 2	
	42	9006037-03	SCREW, TRUS, PHIL, 8-32X 3/8	7	
	43	9010309-00	SCREW, PAN, PHIL 8-32X .375L	8 ·	_
	44	9009700-00	SCREW, TRUS, PHIL, SENS10-32X .500L		•
	45	9007786-00	RETAINER, U-NUT, 18-32	· 12	
	46	9007031-00	TIE, CABLE BUNDL.DIA 8- 3/4"=181:	. 8	
	47	9006563-00	NUT, KEP 8-32X 11/13AF	4	
	48 B-IA-7426335-0-0	7426335-81	STUD PLATE	4	•
	49 A-PS-1215700-0-0	1215700-04	CABLE ASSY, NYLON, 11"LG	1 .	
	50	9006660-00	WASHER, FLAT, .375 O.D. X .187 I	2	
	51 A-PA-3700662-0-0	3700662-01	PKG 11730-ZACPU	1 :	
	52	9006565-00	NUT, KEP 10-32X 3/8 AF	9	
	53 C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	1 :	
	54 A-PS-3613211-0-0	3613211-00	DECAL, CLEAR PREPRINTED CSA 1-1/4		
	55 A-PS-3512Ø63-Ø-Ø	3612063-00	LABEL, , ADHESIVE I.D. FOR UL C	1.	
	56 D-IA-7426625-Ø-Ø	7426625-01:	CLAMP, TABLE, DMF	1	÷
	57 B-IA-7426723-0-0.	7426723-01:	BARCLAMP ASSY.	1:	•
	58 D-HD-7426623-0-0	7426623-31	CLAMP, R83 TABLE	13	
	59	9006028-01	SCREW, PAN, PHIL 6-32X1 SS	. 2	
	58	9006037-01:	SCREW, PAN, PHIL 8-32X 3/8 SS	.2	
	51 B-PL-11730-Z-5		11730-ZA HARDWARE KIT LIST	REF.	
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1 2 3 4 5 6 7 8 9 10 1 12 3 14 5 6 17 8 19 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E-UA-11730-Z-0 E-AD-7018779-0-0 C-IA-7018718-0-0 D-MD-7425374-0-0 C-MD-7425374-0-0 C-MD-7425927-0-0 C-IA-7425928-0-0 C-MD-7425335-0-0 D-IA-7426623-0-0 D-IA-7426625-0-0 B-IA-7426723-0-0 C-MD-7413659-0-0	11730-ZA 7018779-00 7018718-00 7425374-01 7425927-00 7425928-00 7425929-00 742623-01 7426625-01 7426723-01 7413659-00 1215700-04 1218166-00 1219020-00 1700083-21 1700083-22 3615809-00 3700662-01 11730-Z-3	11730-Z UNIT ASSY CPU CABLE RETRACTO PRESSURE SHEET ASS SLIDE MTG BRKT, L SLIDE MTG BRKT, R GUIDE & CLAMP BRKT, CARRIER/BOX BRKT, CAB/CARRIER STUD PLATE CLAMP, R80 CABLE CLAMP, DMF CABLE BAR CLAMP ASSY BRKT, SHIPPING CABLE, FERRULED SLIDE (PAIR) W/HDW CARRIER, CABLE AC LINE CORD (240V AC LINE CORD (120V MEDIA CARTRIDGE, PACKAGING, CPU, HARDWARF KIT BAG	Y EFT IGHT KITS (4)	111221114111111111111111111111111111111									C	PU BOX O	NLY		
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ITEM NO.	DRAWING NO.	PART NO.		DESCRIPTION	117												RE	F DESIG	NATION		
1.		9006037-03	SCR.TRUS,PH	L,8-32x3/8 L	5										(II	EM 42)		JNT PRE ER/BOX	SSURE SHEI	ET AND	
2.		9010309-00	SCR,PAN,PHII	.,8-32x3/8L W/PATCH	8										(II	EM 43)	TO MOI	INT SLI	DES TO CPI	J .	
3.		9009700-00	SCR,TRUS,PHI	IL SEMS,10-32x1/2L	14										(11	EM 44)			DE MTG BRI	CTS ER/BOX BE	ek T
4.		9007786-00	RETAINER,U-	NUT,10-32	12										(II)	EM 45)		INT SLI	DE MTG BRI BRKTS	CTS AND	
5.		9007031-00	TIE,CABLE		8				-						(II)	EM 46)	TO TIE	CABLE:	TO CABLE	CARRIER	
6.	:	9006563-00	NUT, KEF, 8-32	2	2										ri)	EM 47)	FOR TE	THER L	NE		
7.		9006660-00	WASHER, FLAT	, #8	2										(II)	EM 50)	FOR TE	THER L	NE		
8.		9006565-00	NUT, KEP, 10-	32	1										(IT	EM 52)	FOR SH	IIPPING	BRKT		
9.		9006028-01	SCR,PAN,PHI	L,6-32x1.0L	2										(II)	EM 59)	BAR CI	AMP TO	DMF CABLE	CLAMP	·
10.		9006037-01	SCR,PAN,PHI	L,3/8 <u>†</u>	2										(II)	EM 60)	FOR TE	THER L	NE		
11.		9906557-03	BAG, POLYETH	ylene, reclosable 💥	1																
	1:		* BAG TO B	e marked per 178.																• .	
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FIELD MAINTENANCE PRINT SET

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B-TC-BA11-Z-1	FIELD MAINTENANCE PRINT SET MP01266
B-DD-BA11-Z	BA11-Z BOX ASSY-DRAWING DIRECTORY
E-UA-BA11-Z-O	BA11-Z BOX ASSY
K-PL-BA11-Z-DBP	BA11-Z BOX ASSY-PARTS LIST
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K-PL-7018081-0-DBP	MODULE FAN ASSY- PARTS LIST
D-IA-7018161-0-0	DC HARNESS ASSY
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D-IA-7018162-0-0	SENSOR POWER CABLE
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B-DD-5414340-0	AIR FLOW DETECTOR ASSY- DRAWING DIRECTORY
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B-DD-7018080-0	11730-Z BACKPLANE ASSY - DRAWING DIRECTORY
D-AD-7018080-0-0	11730-Z BACKPLANE ASSY
K-PL-7018080-0-DBP	11730-Z BACKPLANE ASSY - PARTS LIST
K-WL-7018080-0-1	11730-Z BACKPLANE ASSY - WIRE LIST
A-WT-7018080-0-2	
MP02157	H7202 LEM PHR. SUP. FIELD MAINT. PRINT SET (COMPLETE)
D-CS-5414340-0-1	AIR FLOW DETECTOR ASSY - CIRCUIT SCHEMATIC

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UNIT VARIATIONS	
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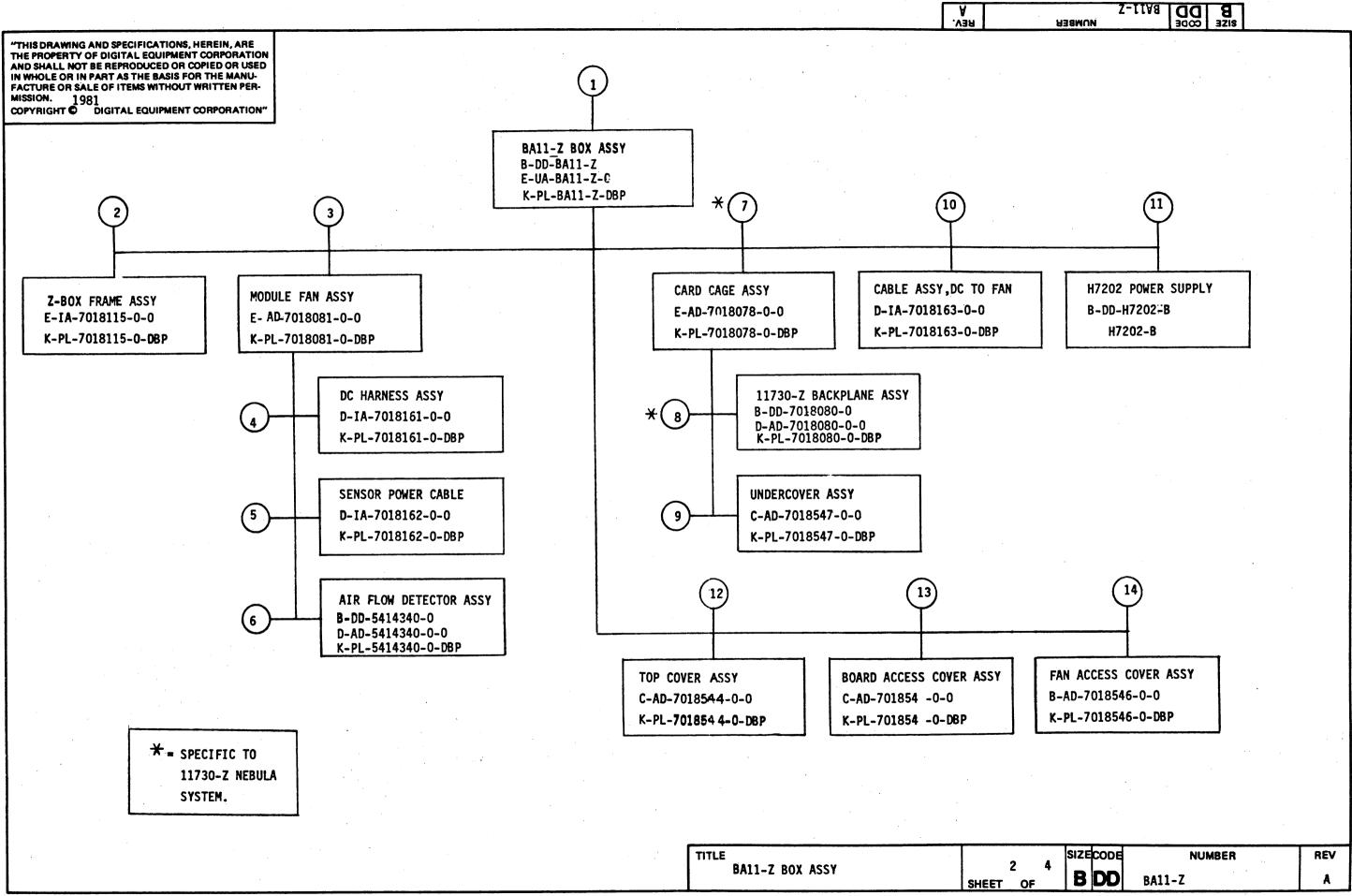
Digital Equipment Corporation

PRINT SET ORDER NO MPO1266

DATE DRN. USED ON OPTION/MODEL A. ROCHA 6JAN82 11730-Z CHK'D DATE FIELD MAINT. PRINT SET CHG. NO. 28JAN82 Amolin REVISIONS (BA11-Z) DATE 28JAN82 PROJ. ENG. Populin REV. NUMBER SIZE TC BA11-Z-1 DATE FIELD SERV. DATE 16feb 82 SHEET I OF 1

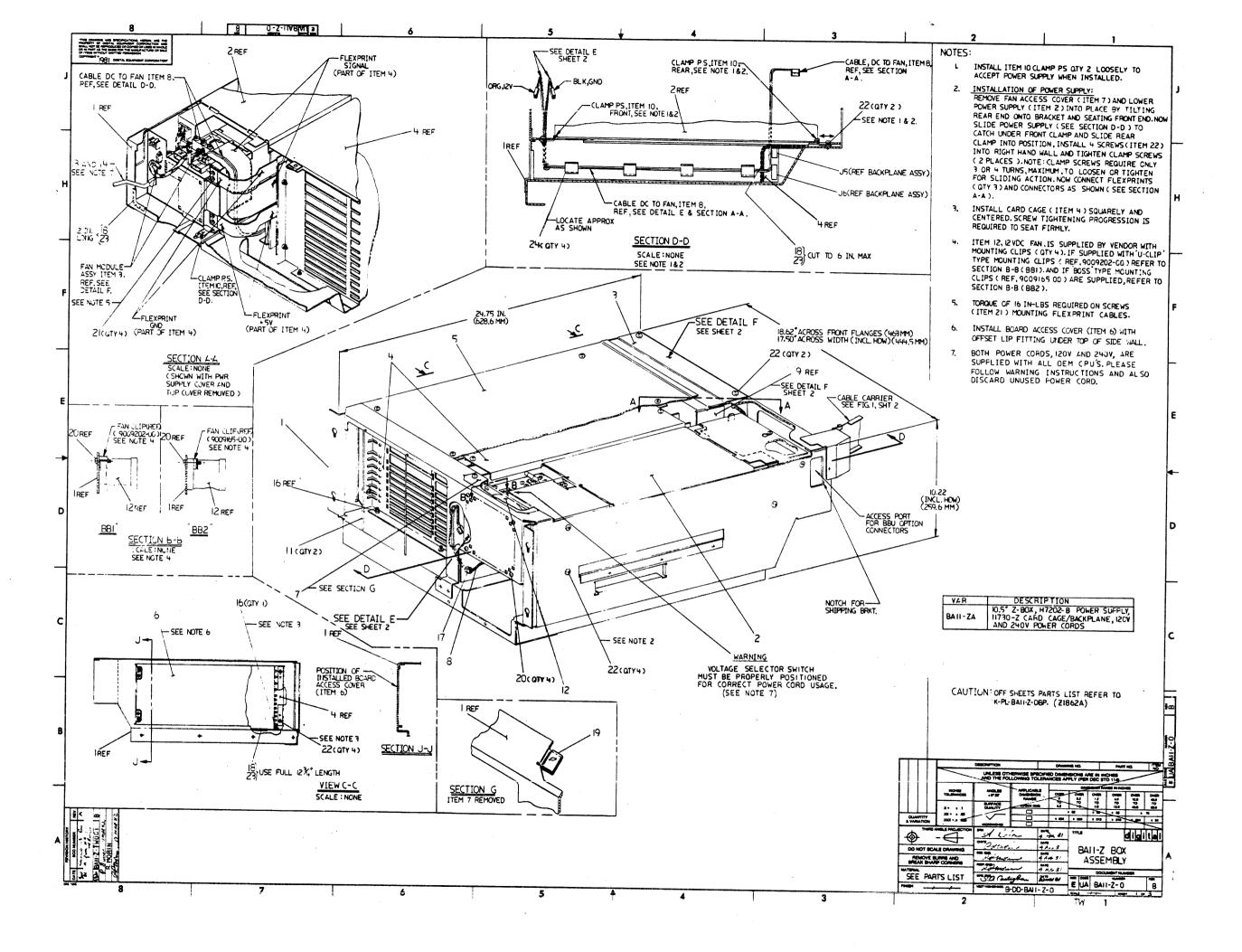
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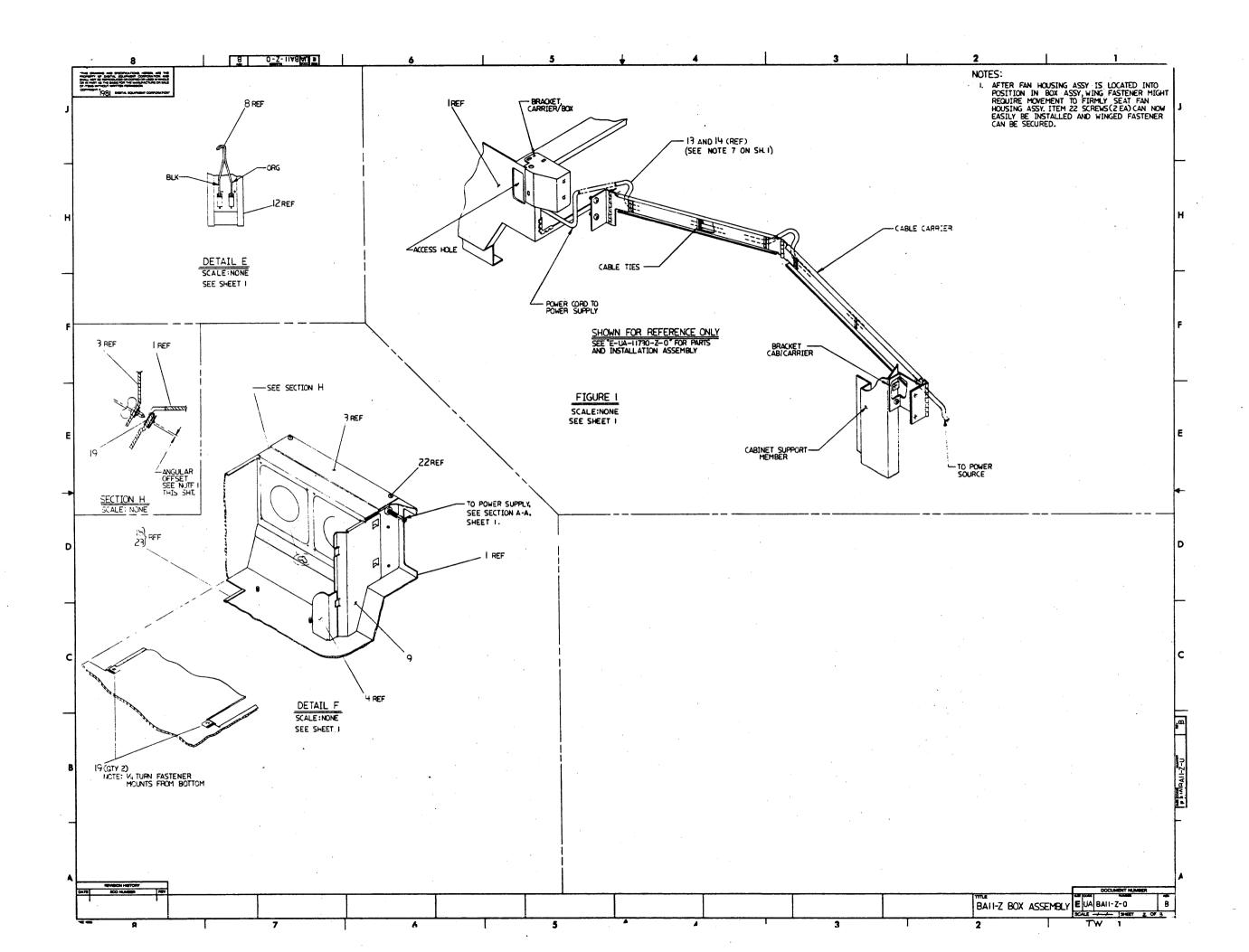
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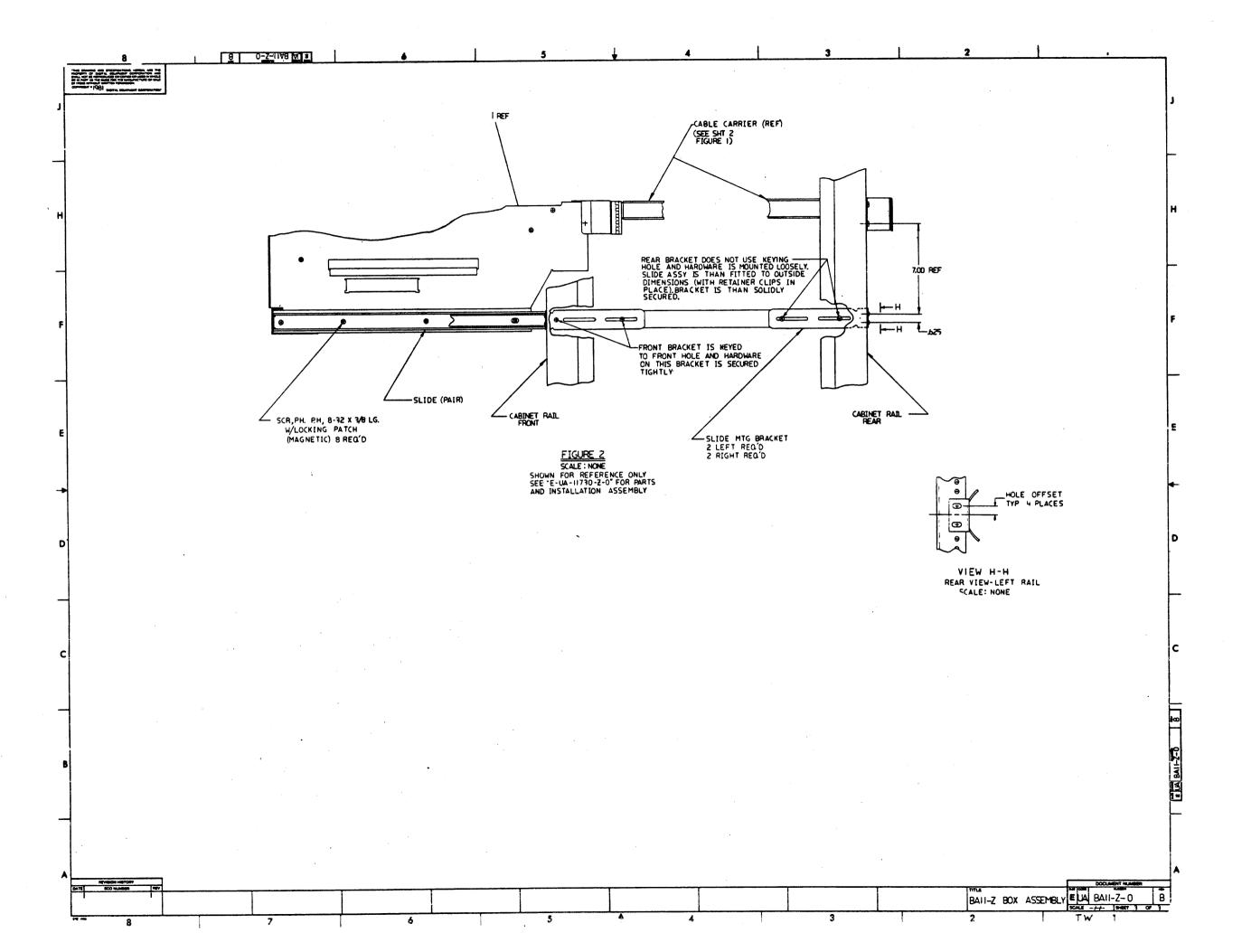


FIND NO	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP01266	FIELD MAINT, PRINT SET (MP)	-	5	D-IA-7018162-0-0	SENSOR POWER CABLE	70
	B-TC-BA11-Z-1	FIELD MAINT. PRINT SET (TC)	-		K-PL-7018162-0-0	SENSOR POWER CABLE-PARTS LIST Z1862	E/M
	B-DD-BA11-Z	BA11-Z BOX ASSY-DRAHING DIRECTORY	- :				
	E-UA-BA11-Z-O	BAII-Z BOX ASSY-UNIT ASSY	E/M.				
	K-PL-BA11-Z-DBP	BA11-Z BOX ASSY-PARTS LIST Z1862	-				
	D-MD-7424850-0-0	BAFFLE , ENP PLATE	M				
	C-IA-7425373-0-0	CLAMP , POWER SUPPLY	м				
	C-MD-7425571-0-0	WIRE , SUPPORT	M	6	B-DD-5414340-0	AIR FLOW DETECTOR ASSY	E/M
	A-PS-1217556-0-0	FAN DC	E/M.		D-UA-541434-0-0	AIR FLOW DETECTOR ASSY	
	A-PS-1700083-0-0	AC LINE CORD	E/M		K-PL-5414340-0-DBP	AIR FLOW DETECTOR ASSY - PARTS LIST	E/M
					D-CS-5414340-0-1	AIR FLOW DETECTOR ASSY - CIRCUIT SCHEM.	E
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				7	E-AD-7018078-0-0	11730-Z CARD CAGE ASSY *	M M
					K-PL-7018078-0-DBP	11/30-Z CARD CAGE ASSY-PARTS LIST Z1828	+ -
2	E-IA-7018115-0-0	Z-BOX FRAME ASSY			C-MD-7423051-0-0	ROD , SUPPORT	M
	K-PL-7018115-0-DBP	Z-BOX CHASSIS ASSY-PARTS LIST Z1858	•		E-IA-7424830-0-0	CARD CAGE (FRONT AND REAR)	M
	E-IA-7424819-0-0	BASEPLATE	М		B-MD-7425257-0-0	CARD GUIDE, SINGLE SHORT	M
	K-PL-7424819-0-DBP	BASEPLATE-PARTS LIST Z1859			A-PS-1212405-0-0	CARD GUIDE, NYLON	M
	E-IA-7424820-0-0	WALL , LEFT SIDE	- Pi	<u> </u>			
	E-IA-7424821-0-0 E-MD-7424822-0-0	WALL , RIGHT SIDE SHELF SUPPORT					
	E-MD-7424823-0-0	BRACE FRONT					
	L-FD-7424023-0-0	DIGGE NOTE	. M	<u> </u>			
				-	B-DD-7018080-0-0	11720 7 DAGUDIANG AGGY BRANCHIS GEOGRAPHIC	
				°	D-AD-7018080-0-0	11730-Z BACKPLANE ASSY-DRAWING DIRECTORY 11730-Z BACKPLANE ASSY **	E/M
				-	K=PL-7018080-0-DBP	11730-Z BACKPLANE ASSY-PARTS LIST Z0715	E/M
					K-WL-7018080-0-1		
	E-AD-7018081-0-0	MODULE FAN ASSY	E/M	-	A-WT-7018080-0-2	11730-Z BACKPLANE ASSY - WIRELIST	E
3_	K-PL-7018081-0-0BP	MODULE FAN ASSY-PART LIST		<u> </u>	 	11730-Z BACKPLANE ASSY - REV STATUS	-
	D-MD-7424831-0-0	FAN HOUSING		-	A-DC-7411881-0-0	LABEL AWT REV STATUS	
	C-MD-7424849-0-0	FAN BAFFLE	M	—	D-MD-7425344-0-0 C-MD-7425372-0-0	PROTECTIVE COVER	М
	A-PS-1217556-0-0	FAN DC	14		A-PS-1700238-0-0	SPACER CIRCUIT, FLEX, SIGNAL	M
	A-P3-1217 330-0-0	TAIL DO		<u> </u>			E/M
				_	A-PS-1700239-0-0 F-MD-5014598-0-0	CIRCUIT, FLEX, POWER	E/M
					E-MU-5014598-0-0	DRILL AND ETCH BOARD	E/M
4	D-IA-7018161-0-0	DC HARNESS ASSY	E/M				
	K-PL-7018161-0-DBP	DC HARNESS ASSY-PARTS LIST Z1851	-				
				9	C-AD-7018547-0-0	UNDERCOVER ASSY	<u> </u>
		·			K-PL-7018547-0-DBP	UNDERCOYER ASSY-PARTS LIST Z2449	+"
					E-MD-7424829-0-0	UNDERCOVER	
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D-IA-7018163-0-0 K-PL-7018163-0-DBP	CABLE, DC TO FAN CABLE, DC TO FAN-PARTS LIST Z1853	-							
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MP02157	H7202 POWER SUPPLY PRINT SET (MP)		 						
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C-AD-7018544-0-0	TOP COVER ASSY	M	 						
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C_AD_7018545_0_0	BOARD ACCESS COVER ASSY	M	 						
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B-AD-7018546-0-0	FAN ACCESS COVER ASSY	M							
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	E-TC-H7202-0-1 R-DD-H7202-B C-AD-7018544-0-0 C-PL-7018544-0-DBP C-MD-7424827-0-0 C-AD-7018545-0-DBP D-MD-7424824-0-0 C-PL-7018546-0-DBP C-MD-7424825-0-0 C-MD-7424825-0-0 C-MD-7424825-0-0	-TC-H7202-0-1 H7202 POWER SUPPLY (TC) -DD-H7202-B H7202 POWER SUPPLY -AD-7018544-0-0 TOP COVER ASSY -PL-7018544-0-DBP TOP COVER ASSY-PARTS LIST Z2444	-TC-H7202-0-1 H7202 POMER SUPPLY - (TC)	-TC-H7202-0-1 H7202 POWER SUPPLY (TC)D0-H7202-B H7202 POWER SUPPLY F/M -D0-H7202-B H7202 POWER SSY M -D0-H7202-B H7202 POWER SUPPLY F/M -D0-H7202-B H7202 POWER SSY M -D0-H7202-B H7202 POWER SUPPLY F/M -D0-H7202-B H7202 POWER SSY M -D0-H7202-B H7202 POWER SUPPLY F/M -D0-H7202-B H7202-B H7202 POWER SUPPLY F/M -D0-H7202-B H7202-B H72	### ### ##############################	1.7. 1.7.	-TC-H2702-0-1		TLAY TO POWER SUPPLY

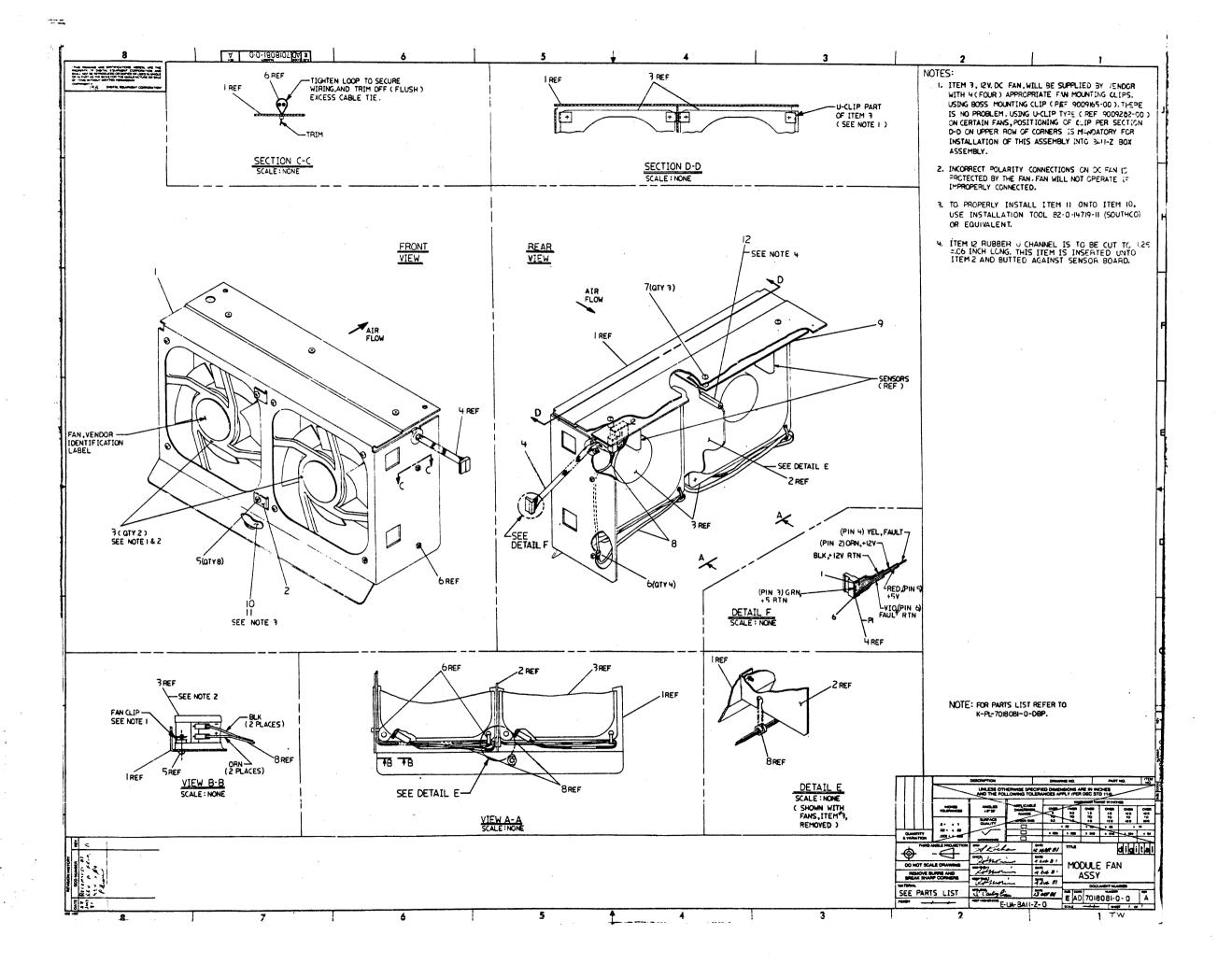






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1 2334 29 67 89 00 112334 1567	7018115-00 H7202-B 7018081-00 7018078-00 7018545-00 7018545-00 7018546-00 7018546-00 7424850-00 7424850-00 1720083-22 1700083-21 9006565-00 9007035-00 9007035-00 9009984-01 9009988-08 9010174-01 9009157-00 9009157-00	Z-BOX FRAME ASSY. NEBULA POW SUP: H7200, H7211, H721 FAN ASSY CARD CAGE ASSY TOP COVER ASSY. BOARD ACCESS COVER ASSY. FAN ACCESS COVER ASSY. CABLE DC TO FAN PLATE, BAFFLE END CLAMP, PS SUPPORT, WIRE FAN, 108CFM, 12VDC, AXIAL, 4.5"DIA PWR CORD, TERM. 84IN, 18-3 125V 15 PWR CORD, TERM. 84IN, 18-3 250V 6 *** THIS ITEM IS NOT USED *** NUT, KEP GROMMET, RUBBER GROMMET, RUBBER GROMMET, RUBBER GROMMET, RUBBER GROMMET, RUBBER GROMMET, SEMS, PHILLIPS PAN HD 6- SCREW, SEMS, PHILLIPS PAN HD 6- SCREW, SEMS, SLOTTED HEX HD 8-32 SCREW, PAN, PHIL, SEMS 8-32X .31 L ADH, LIQ.RM. TEMP CURING COLORLESS CLAMP, CABLE, FOR FLAT CABLE	A LANE E FRICE I CHERRICHE ELECTE D LANE E FRICE I ECHRRICHE ELECTE		

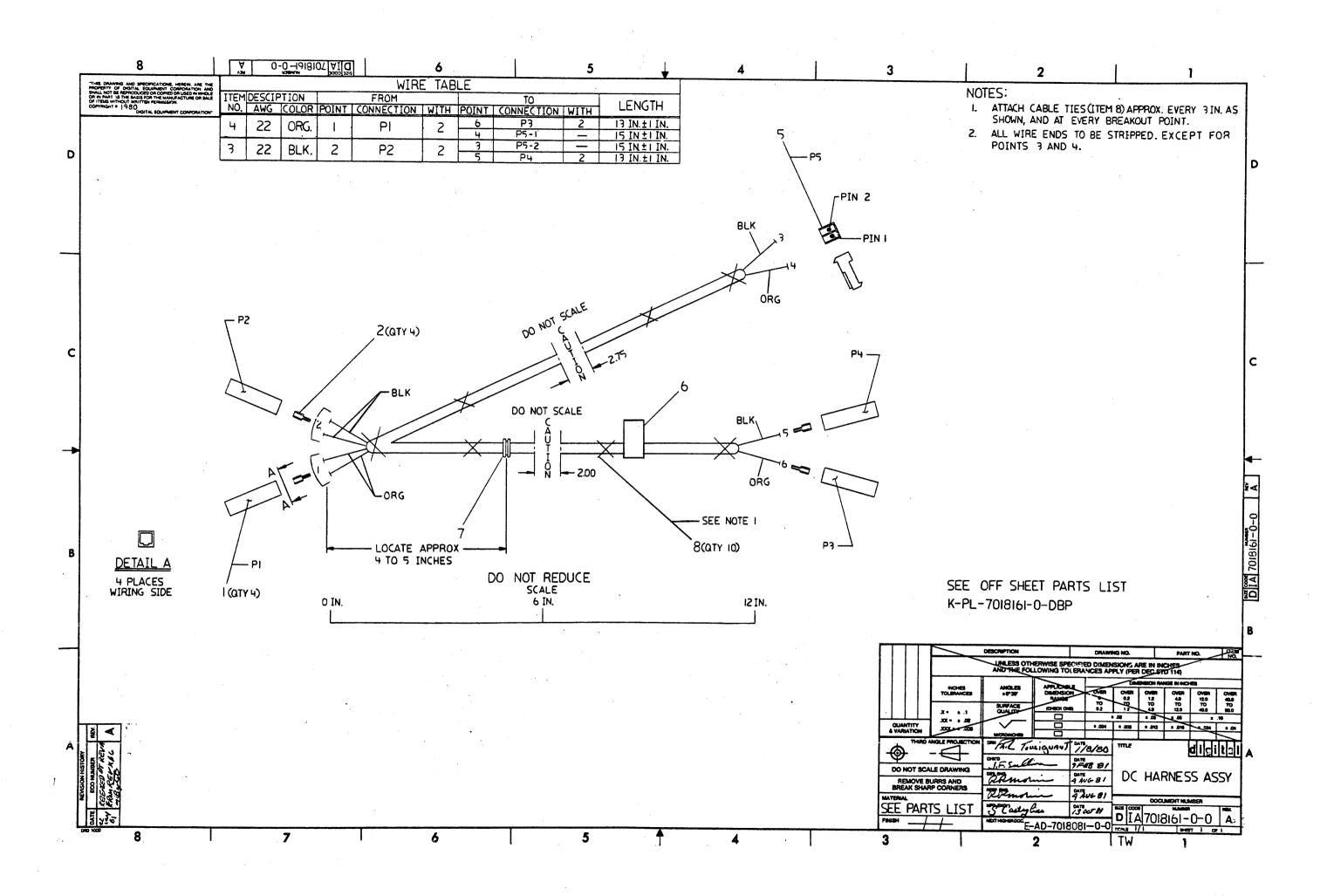
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1 D-MD-7424831-0-0 2 C-MD-7424849-0-0 3	7424831-00 7424849-00 1217556-00 7018162-0M 9009984-01 9007031-00 9009643-02 7018161-00 5414340-00 9010308-00 90103533-00	HOUSING, FAN BAFFLE, FAN BAFFLE, FAN FAN, 1030FM. 12VDC, AXIAL, 4.5"DIA SENSOR PWR CABLE SCREW, SEMS, PHILLIPS PAN HD 6- TIE, CABLE BUNDL. DIA 0- 3/4"=101 SCREW, PAN, SLOT, SEMS 4-40X .250L DC HARNESS ASSY AIR FLOW SENSOR FASTNR, 1/4 TURN, WING HD RETAINER, PUSH-ON SS/PAS CHANNEL"U"ENTRUDED RUBBER		

13 NOTE: * CUT LENGTH OF ITEM 12 TO BE 1.25+\-. 06 INCH

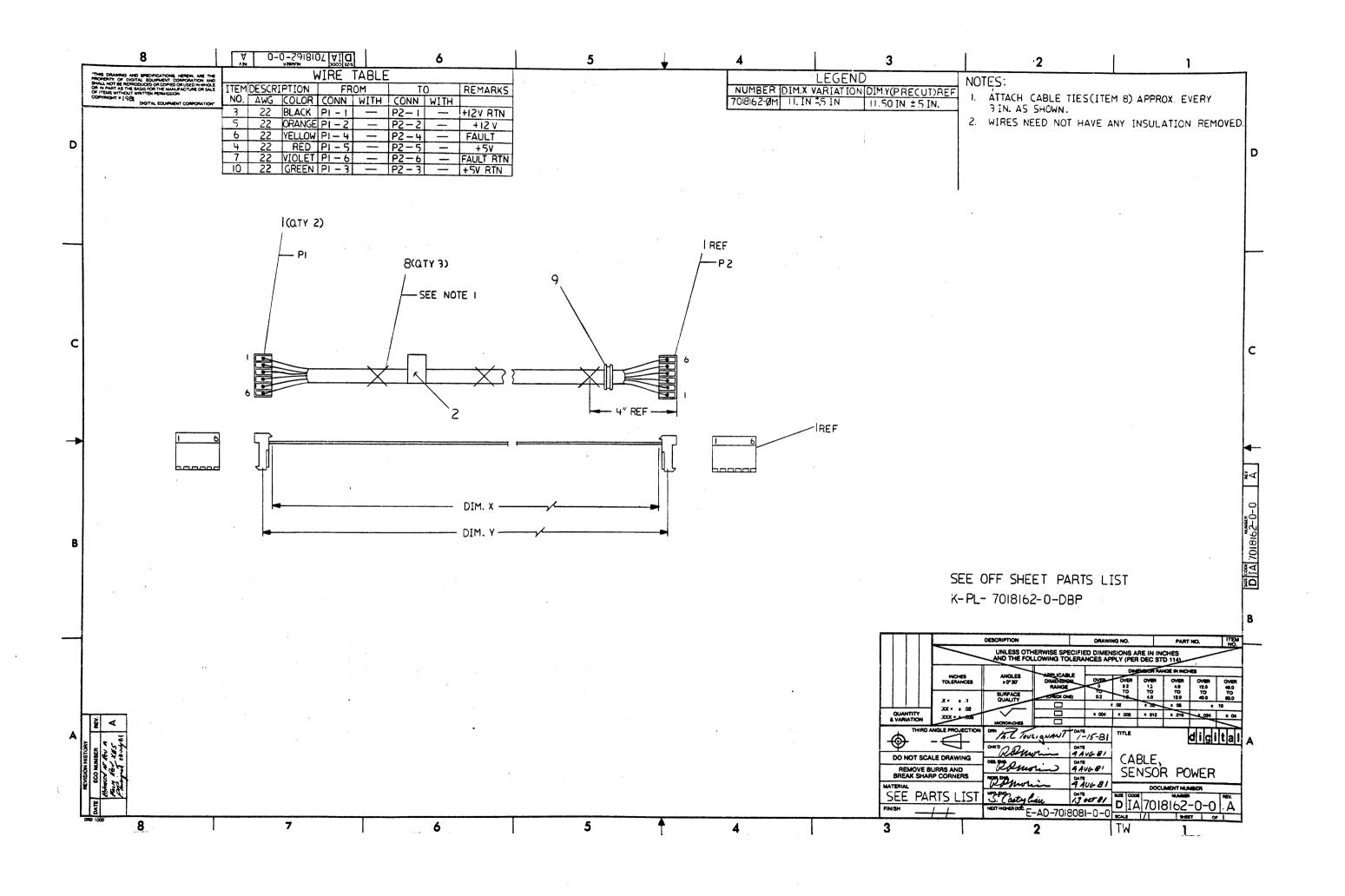
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9 NOTE: 1. ITEM 3 REGUIRES A 13 INCH AND A 15 INCH LENGTH. 10 NOTE: 2. ITEM 4 REGUIRES A 13 INCH AND A 15 INCH LENGTH.

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11 NOTE: ITEMS 3,4,5,5,7 AND 10 ARE IN INCHES LONG.

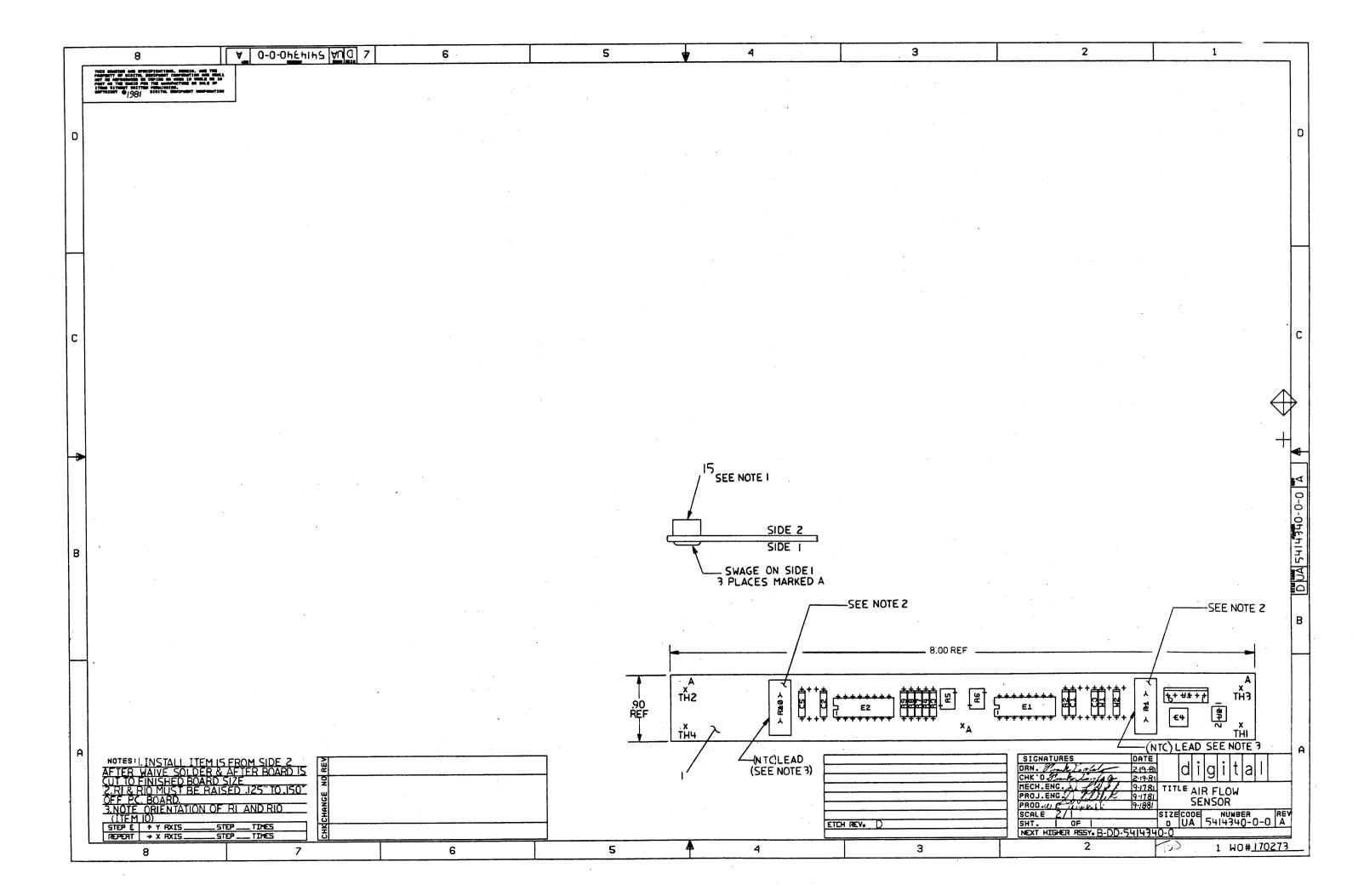
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B DD PHESTO - O SIZE SOF DRAWING NO. PART NO. **DESCRIPTION REVISIONS** B-DD-54|4340 - 0 AIR FLOW SENSOR Α D-UA-54H340-0-0 AIR FLOW SENSOR D-MD-5014339-0-0 3 DRILL AND ETCH DRAWING D-EC-5014339-0-0 ETCH CUT DRAWING D CS 5414340-0-1 AIR FLOW SENSOR Α K-PL-5414340-0-DBP AIR FLOW SENSOR A. 5014339 ETCHED BOARD n K-PG54H340-0-DBC PC DESIGN DATA BASE ח A-SP-3700646-0-0 6 3700646-01 PKG MODULE (5413340) 54PACK Α A-SP-5414340-0-2 17 AIR FLOW SENSOR SPEC Α **NOTES:** REVISIONS CHG NO. REV. DATE DRN. Fergusen 4-10-0 TITLE

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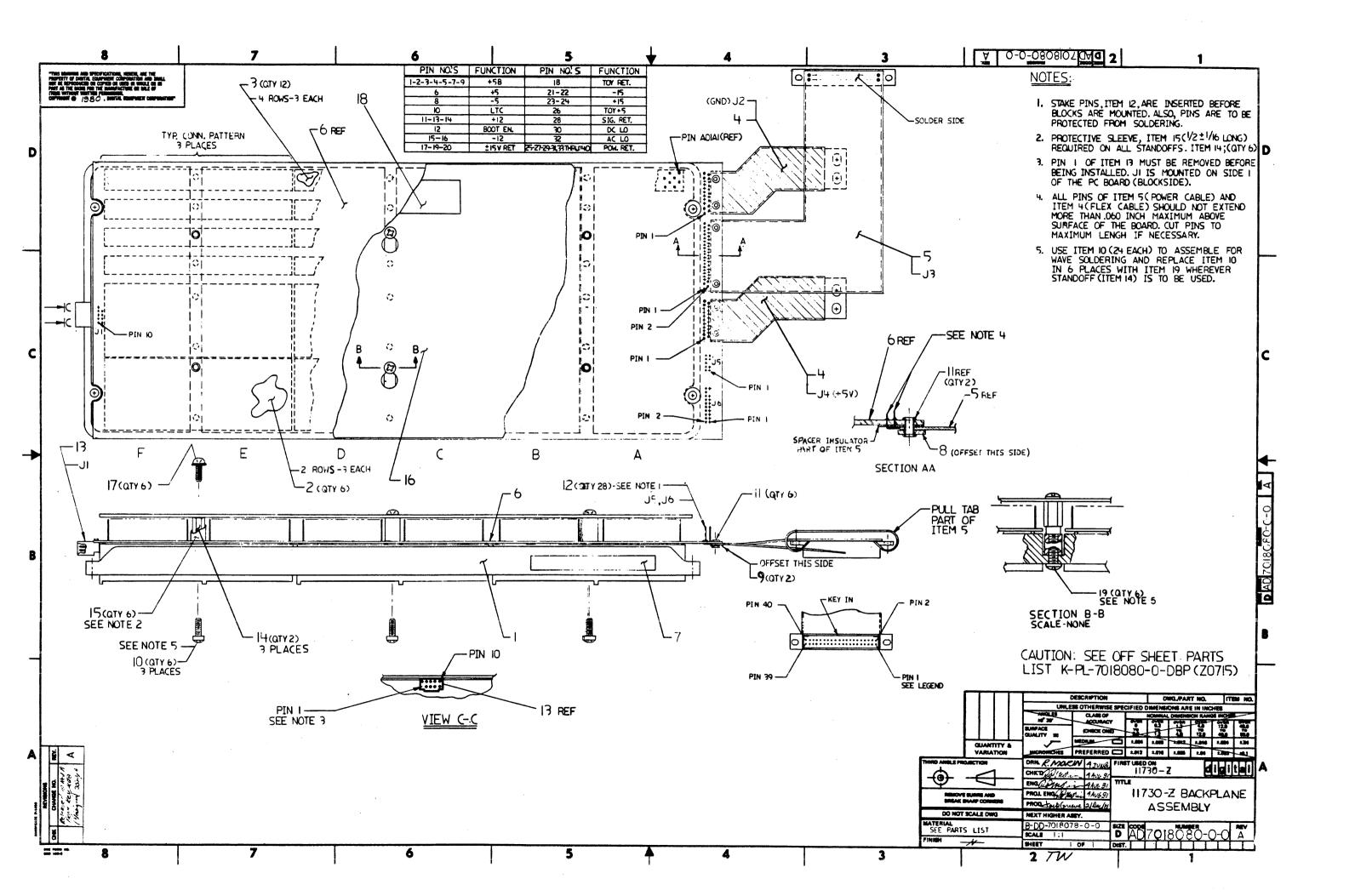
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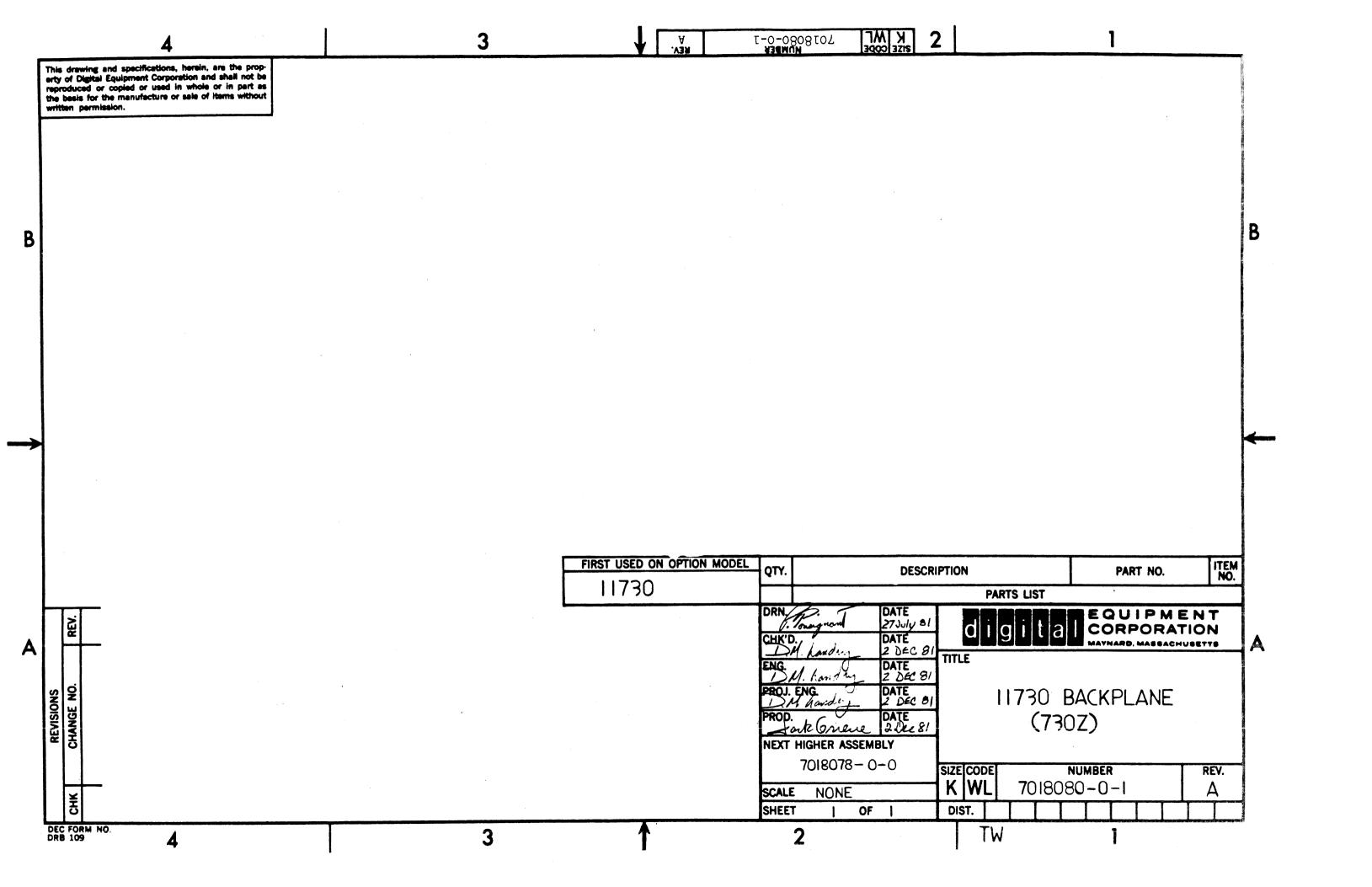
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B DD 1018080-0-0 B. DRAWING NO. | NO. | PART NO. **DESCRIPTION REVISIONS** A-WT-7018080-0-2 AWT REVISION STATUS AA DESIGN DATA BASE TAPE K-WL-7018080-0-DBW AA WIRELIST (730Z) AA K-WL-7018080-0-1 5014598-00 ETCH BOARD $c \mid D$ AA 11730-Z BACKPLANE ASSY K-PL-7018080-0-DBP 11730 Z BACKPLANE ASSY AA D-AD-7018080-0-0 730Z BACKPLANE MODULE AB B-DD-5414599-0-0 **NOTES:** \mathbf{a} REVISIONS DATE CHG NO. TW001 8-82 273.1y81 TITLE USED ON OPTION/MODEL "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-11730 BACKPLANE PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 2 DEC 81 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN SIZE CODE NUMBER 7018080 -0 -0 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF REV. 208081 ITEMS WITHOUT WRITTEN PERMISSION. Tack Grieve 2 Dec 81 DIGITAL EQUIPMENT CORPORATION SHEET OF COPYRIGHT®



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UNIT VARIATIONS COVERED BY THIS PRINT SET H7202B

Field Maintenance Print Set No. MPO1257

Digital Equipment Corporation

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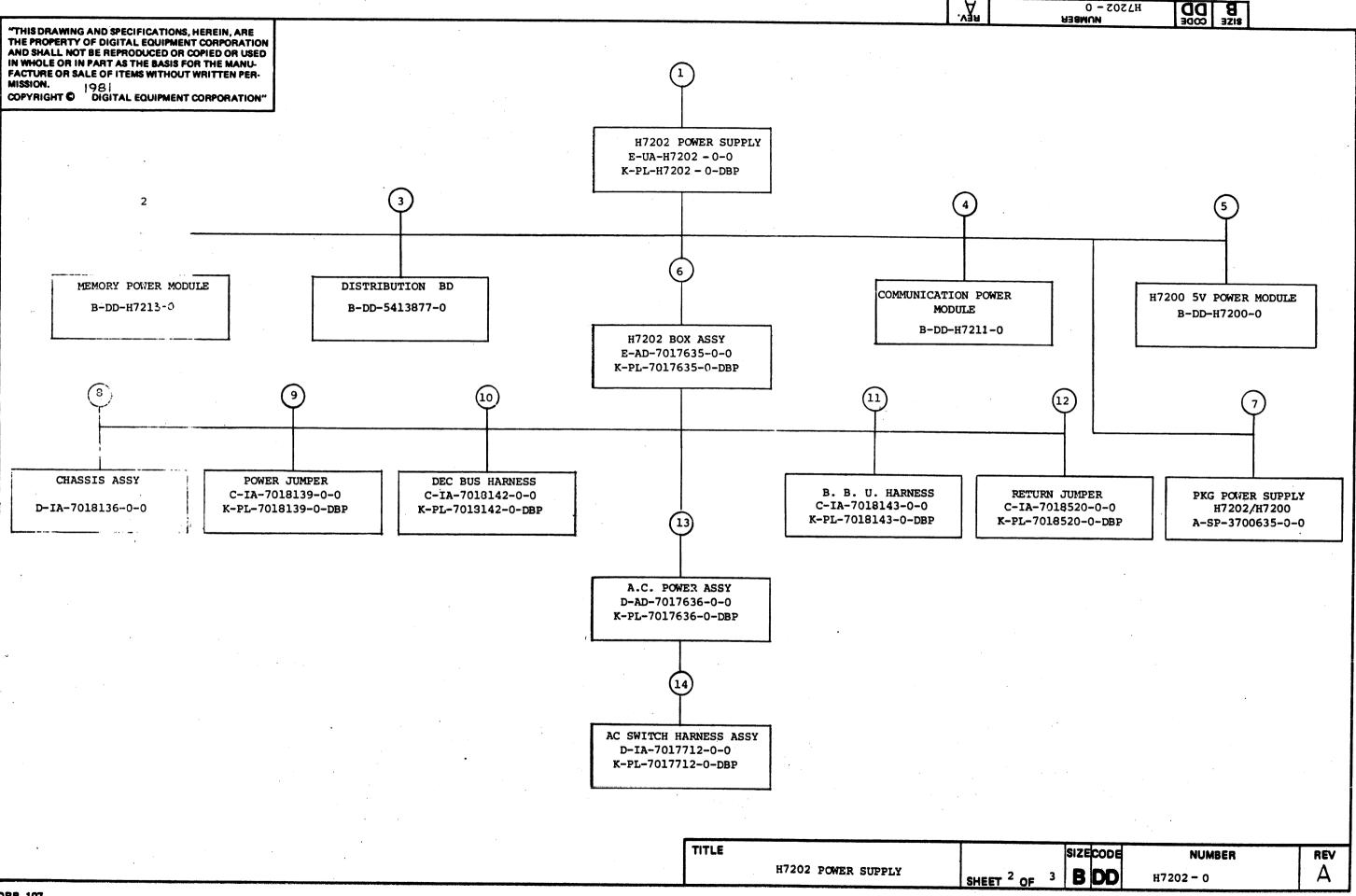
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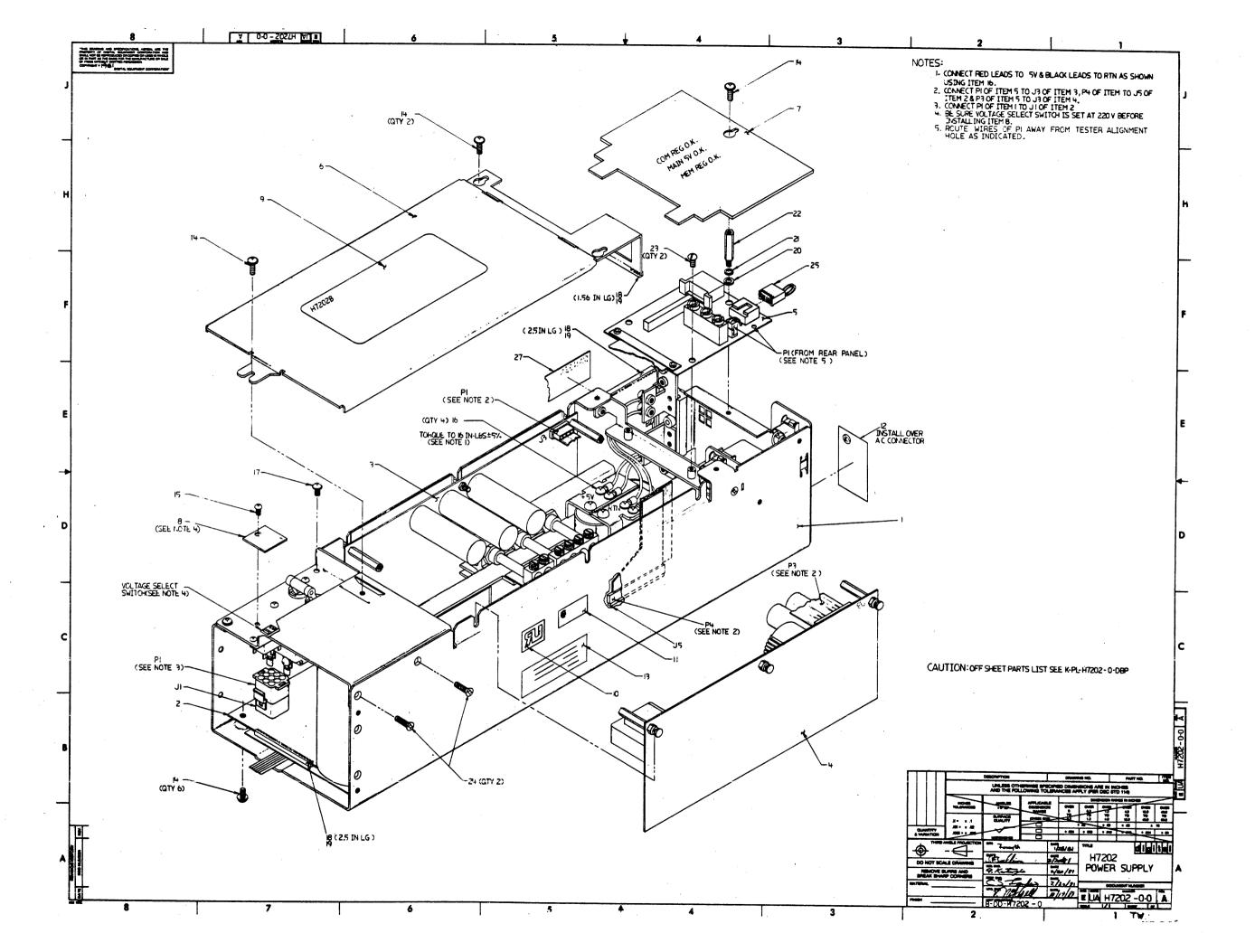
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CHANGE NO. REVISIONS

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1	MP02157	FIELD MAINTENANCE PRINT SET (MP)				CHASSIS ASSY	M
1	B-TC-H7202 - 0-1	FIFID MAINTENANCE PRINTSET (TC)	-	↓	F-MD-7424252-0-0	CHASSIS, LEM	M
	E-UA-H7202 - 0-0	H7202 POWER SUPPLY	E/M		D-MD-7424253-0-0	PLATE, END	<u> </u>
1	K-PL-H7202 - 0-DBP	H7202 POWER SUPPLY PARTS LIST	E/M	↓ }			
	D-MD-7424254-0-0	COVER TOP	M	4			
	D-IA-7424260-0-0	PANEL, ACCESS	M	╢			
	B-MD-7425394-0-0	COVER, SWITCH	M	<u> </u>	V-1/1-/ V1-V1-V1-V1-V1-V1-V1-V1-V1-V1-V1-V1-V1-V	JUMPER, POWER	E/N
	Λ-DC-3618426-0-0	LABEL, P.S. H7202	M	┨├-	K-PL-7018139-0-DBP	JUMPER, POWER PARTS LIST	/-
	A-DC-3612063-0-0	LABEL ADHESIVE		┦┡─			
	A-DC-3613211-0-0	DECAL CSA	M ·	┨├─			
	A-DC-3618427-0-0	LABEL, CAUTION	M	┨├─			-
	A-DC-3615087-02	LABEL, "DANGER-HIGH CURRENT"	M	┧├╌	O C-IA-7018142-0-0	DEC BUS HARNESS	T
			+	┪┝╌ [╏]	K-PL-7018142-0DBP	DEC BUS HARNESS	E/1
\dashv				+	N. 12 / 0202.12 050.	DEC BUS HARRESS	E/1
			F/M	┧├─			
2	B-DD-H7213-0	MEMORY POWER MODULE	FILE	1 -			
				1			
				1 -	C-IA-7018143-0-0	HARNESS_ BBU	E/!
					K-PL-7018143-0-DBP	HARNESS, BBU PARTS LIST	E/N
3	B-DD-5413877-0	DISTRIBUTION BOARD	E/M	↓		·	
				ا لل	C-IA-7018520-0-0	JUMPER, RETURN	E/N
4	8-DD-H7211-0	COMMUNICATION POWER MODULE	E/M		K-PL-7018520-0-DBP	JUMPER, RETURN PARTS LIST	E/r
5	B-DD-H7200-0	H7200 5V POHER MODULE	E/M	4	B D-AD-7017636-0-0	AC POWER ASSY	E/M E/M
				┨├─	K-PL-7017636-0-DBP	AC POWER ASSY PARTS LIST	E/N M
					D-MD-7424258-0-0	BRACKET, C.B. MTG	
	- AD 7017605 0 0	H7202 BOX ASSY	E/M	┧├╴			
6	E-AD-7017635-0-0 K-PL-7017635-0-DBP	H7202 BOX ASSY PARTS LIST	E/M E/M	1 -			
		BRACKET POWER CONN	М		L4 D-IA-7017712-0-0	HARNESS ASSY, AC SWITCH	E/I
	D-IA-7424257-0-0 D-MD-7425398-0-0	INSULATOR, POWER CONN	M	7	K-PL-7017712-0-DBP	HARNESS ASSY, AC SWITCH PARTS LIST	E/N
	D-MD-7424259-0-0	CONNECTOR MTG. BRACKET	M	7			
	C-MD-7425494-0-0	INSULATOR, P.C. BOARD	М				
	C-MD-7425494-0-0	INSULATOR, SHIELD	M	-			
7	A-SP-3700635-0-0	PKG POWER SUPPLY H7202/H7200	М				
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TYP	E: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL	digi	tal	TI	TLE H7202 POWER SUPPLY	SHEET 3 OF 3 SIZE CODE NUMBER H7202 - 0	REV A



AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION B SHEET A1 OF A2
1	7017635-00 H72011-00 H720113-00 H72013-00 H72013-00 740-00 54134-00 54124-00 54124-00 541254-00 541254-00 9009982-00 9009992-00 90009992-00 90009999999999	H7202 BOX ASSY. SV FOWER MODULE: 5V 60A, 300V 200 COMM OPT PS: +15V 2A, -15V 3A, +12 MEMORY PWR MODULE: +5V 15A, +12V H7202 DIST BOARD TOP COVER ACCESS PANEL COVER, SWITCH LABEL, P.S. H7202 LABEL, CAUTION VOLTAGE SETTING LABEL, CAUTION VOLTAGE SETTING LABEL, POWER SUPPLY, 2-15/16 LABEL, FOWER SUPPLY, 2-15/16 LABEL, FOWER SUPPLY, 2-15/16 LABEL, FOWER SUPPLY, 2-15/16 LABEL, TAPPING, TYPE PAN HD. 6-3CREW, TAPPING, TYPE PAN HD. 6-32X 5/16 GROMMET #122-37-1500 ADH, LIQ.RM.TEMP CURING COLORLESS WASHER, FLAT, 312 O.D. X.156 I WASHER, FLAT, 312 O.D. X.156 I WASHER, FLAT, 312 O.D. X.156 I WASHER, FLAT, STANDOFF, HEX, M/F 6-32X 1 SCREW, PHILLIPS FLAT AD, 6-32 X JUMPER TOY POWER PAN HD, 6-32 JUMPER TOY POWER PKG. POWER SUPPLY H7202/H7200 LABEL, "DANGER-HIGH CURRENT"	
ENG ECO NUMBER REV SI	THEN E NO IN DUDI O	T.MCCULLOUGH CHK'D: J.SULLIVAN DES.ENG.: A.KANTARGIS RESP.ENG.: C.LANDINO MFG.ENG.: V.MITCHELL ASSEMBLY NUMBER: E-UA-H7202-0-0 THE BROBERTY OF DICTION FOULTMENT	INTERPORATION DIGITAL TALL TITLE PARTS LIST PARTS LIST DOCUMENT NUMBER REV DOCUMENT NUMBER REV DOCUMENT NUMBER REV PARTS LIST A L TITLE PARTS LIST DOCUMENT NUMBER REV PARTS LIST PART

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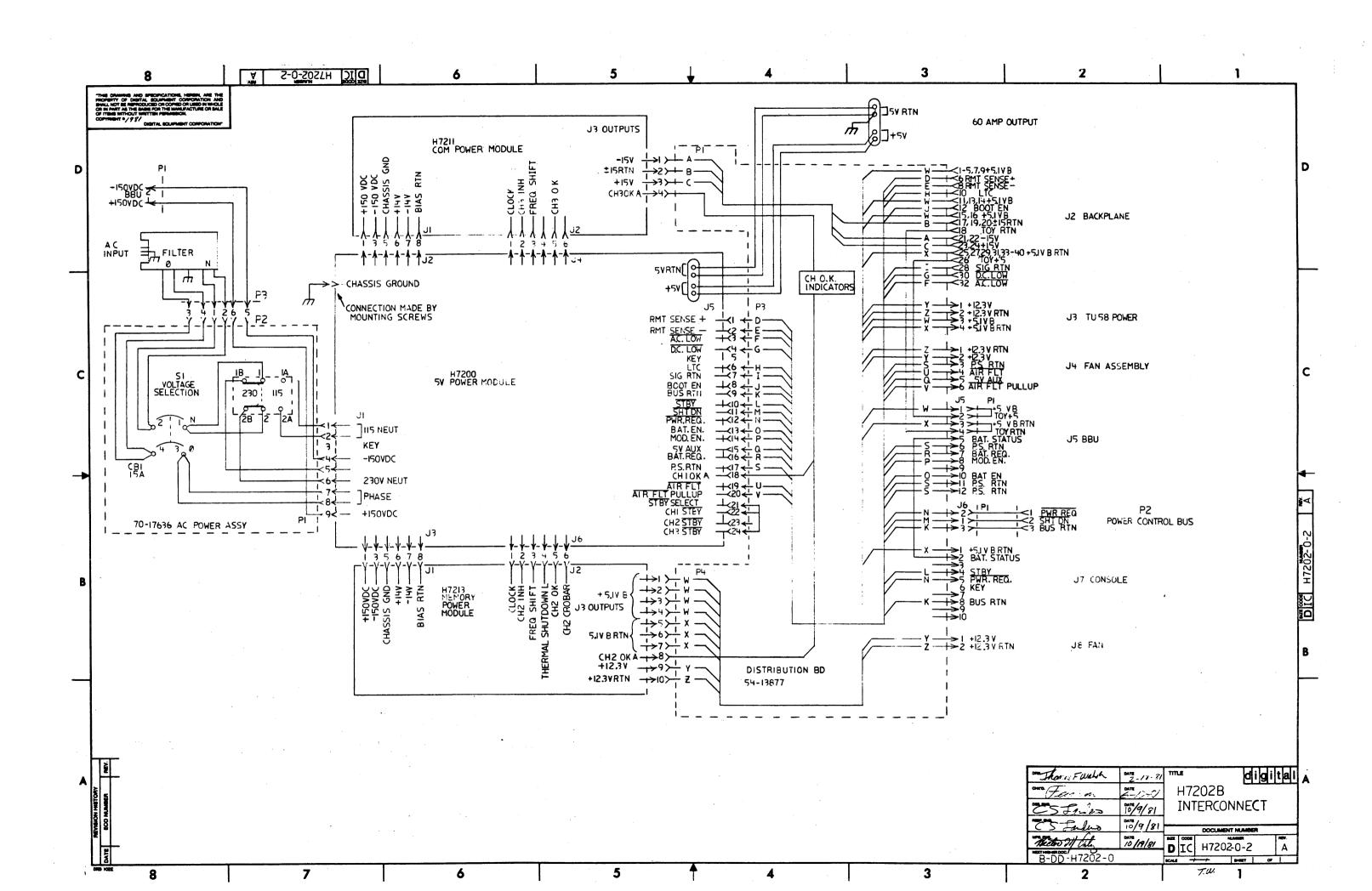
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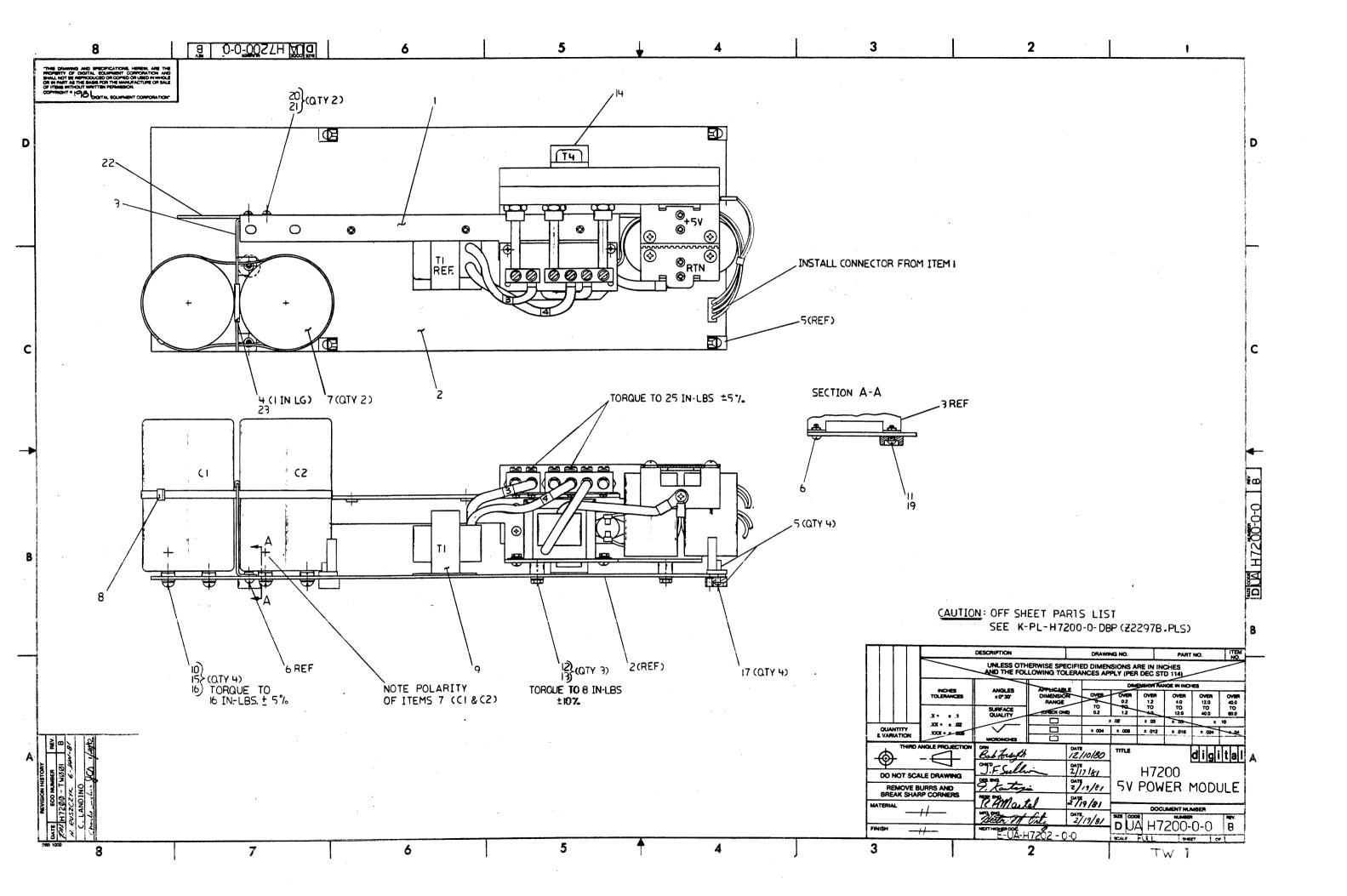
DESCRIPTION

28 NOTE: ITEM 18 IS IN INCHES. 29 NOTE: ITEM 26 IS BULK PKG FOR (48) UNIT. FOR INDIVIDUAL PKG USE 3700635-01 QTY 1.

		G					H7202 POWER SUPPLY	SECTION A OF A	
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AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QUANTITY PER VARIATION	SHEET A1
1 D-UA-7017638-0-0 2 D-UA-5413857-0-0 3 C-MD-7424279-0-0 5 D-MD-7425495-0-0 6 7 8 9 10 10 11 12 13 14 15 15 16 17 18 19 20 21 22 23	7017638-00 5413857-00 7424279-00 7425495-00 7425495-00 9010148-01 1018989-00 1617441-00 9000038-07 1216435-00 9008185-00 9008978-00 9009950-01 9009800-05 3700635-03 90098012-00 9008212-00 7426130-00 9009157-00	OUTPUT ASSY. H7200 MAJOR BD BRACKET, TAF, SUPPORT GROMMET, STRIP X 650 CARD GUIDE SCREW TRUSS PHIL 6-32X 5/16 3300 MFD 200V +50-10% AL EL TIE, CABLE BUNDL.DIA -4"TYPE=101 XFMR P=370V S=28,60.86V SCREW, PAN, PHIL 10-32X 3/8 BR/T BUMPER WASHER, FLAT, .312 0.D. X .155 I NUT, KEP XFMR, FLYBACK BIAS, HIGH FREQUENCY WASHER, LOCK, INT3750D X .200ID WASHER, FLAT BR/TIN .203IDX .4380 SCREW, PAN, PHILLIPS, 4X.38 PKG. POWER SUPPLY H7202/H7200 SCREW, PAN, PHILLIPS, 4X.38 BARSHER, FLAT, 375 C.D. X .156 I SCREW, NYLON, SLTD PAN HD, 6-32 BARRIER, B.S. ADH, LIQ.RM. TEMP CURING COLORLESS	A WHOW A LLE HOW THE REMAINS A LANGE AND A LEAST AND A	

OF A2

24 NOTE: ITEM 18 IS A CUSTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMIND BY MFG-25 NOTE: FOR BULK PKG (88) UNITS USE 3700635-04, QTY 1.

	- 3 :	HUIE: FUR BULK	1 NG 1					++++++++++++++	-++++	++++++++++		-+++	+++++++	+++++++	++++	++++
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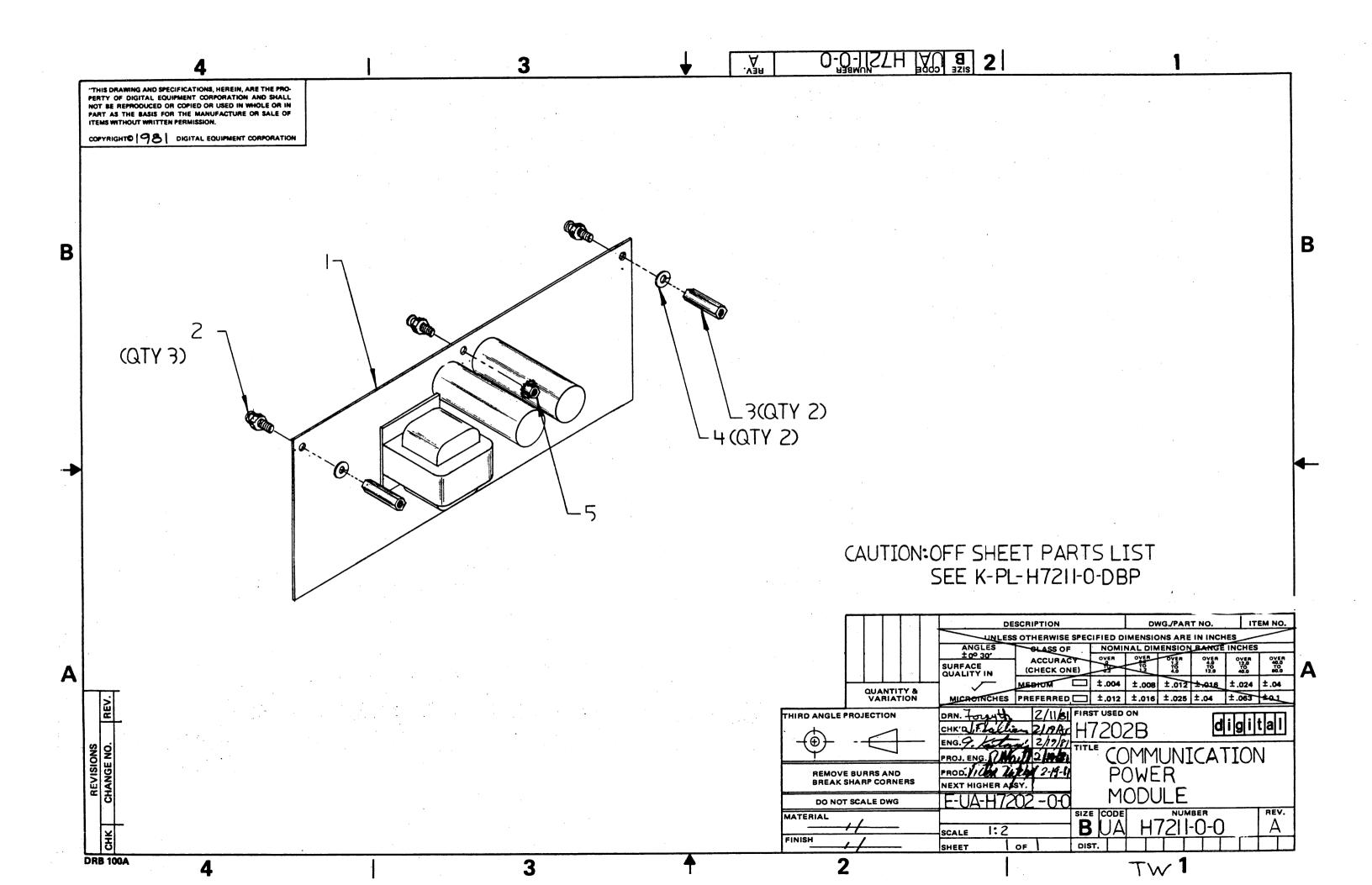
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PART NUMBER DESCRIPTION

QUANTITY PER VARIATION

26 NOTE: ITEM 4 IS IN INCHES.

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7 NOTE: ITEM 6 IS A CUSTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMINED BY MFG.

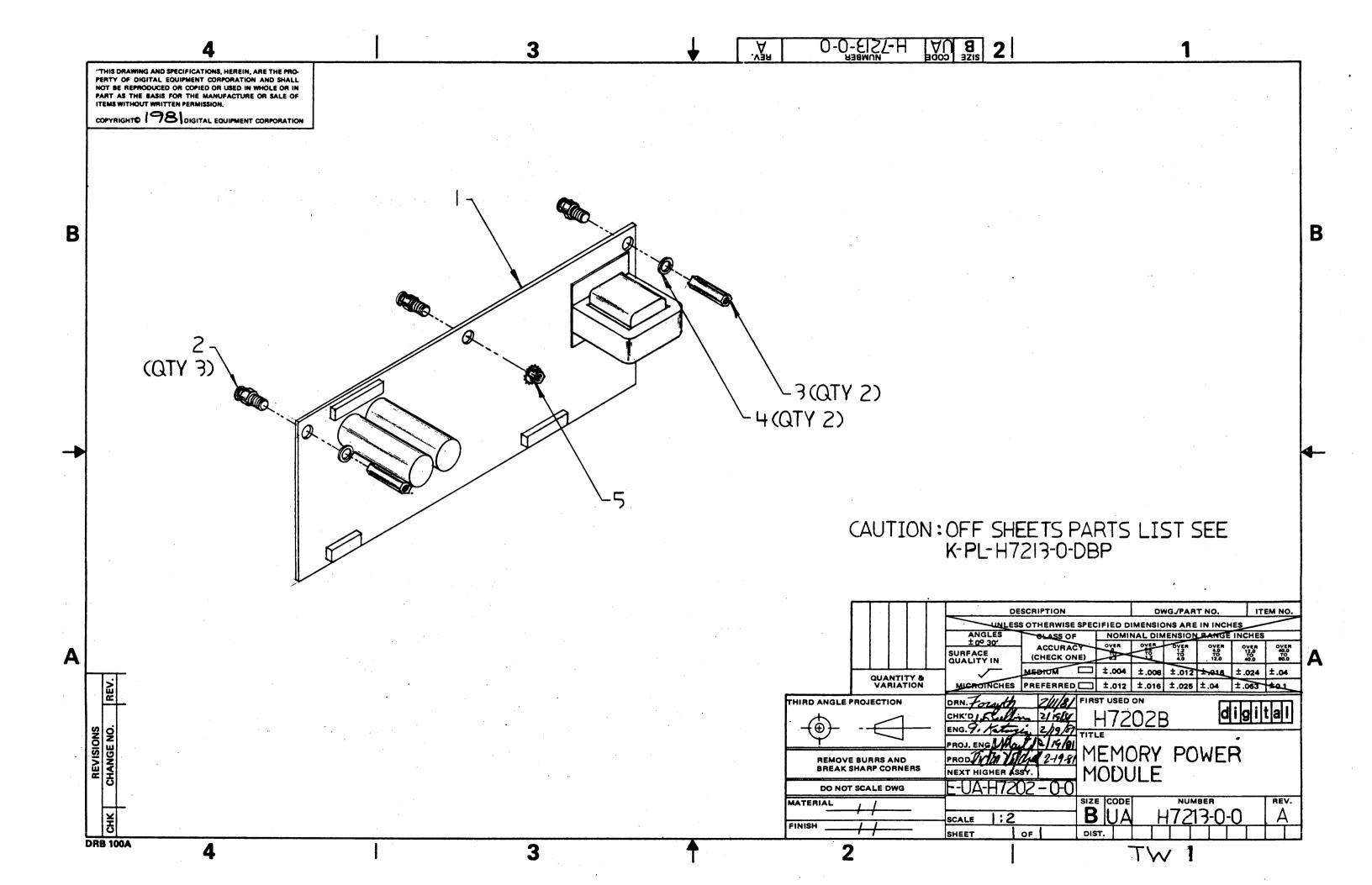
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!BASIC PART NO: H7211 ! REVISION HISTORY DIIIGIIITIALL !++++++++1]++++++++!DRN: T. MCCULLOUGH 1++++++++++++++++++++ +++++|+++|+++|+++|+++|+++| ENG! ECO NUMBER ! REV ! SECTION A OF A TITLE PARTS LIST [+++]++++++++++++++ SECTIO. hVa[YATION INDEX!CHK'D: !DATE: 19-FEB-81 ! J.SULLIVAN !---! INITIAL DES.ENG.: A.KANTARGIS !DATE: 19-FEB-81 [8] ----++++++++++++ DOCUMENT NUMBER DATE: 19-FEB-81 !+++++++++++++++++++++++++++++++ RESP.ENG.: R.MARTEL -!++++++++++++!SIZE!CODE! NUMBER ! REV ----DATE: 19-FEB-81 K PL H7211-0-DBP MFG.ENG.: V.MITCHELL [E] -----1+++++ FILE NAME: Z2283.PLS TOP DOCUMENT NUMBER: ASSEMBLY NUMBER: !EDIT #! "THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

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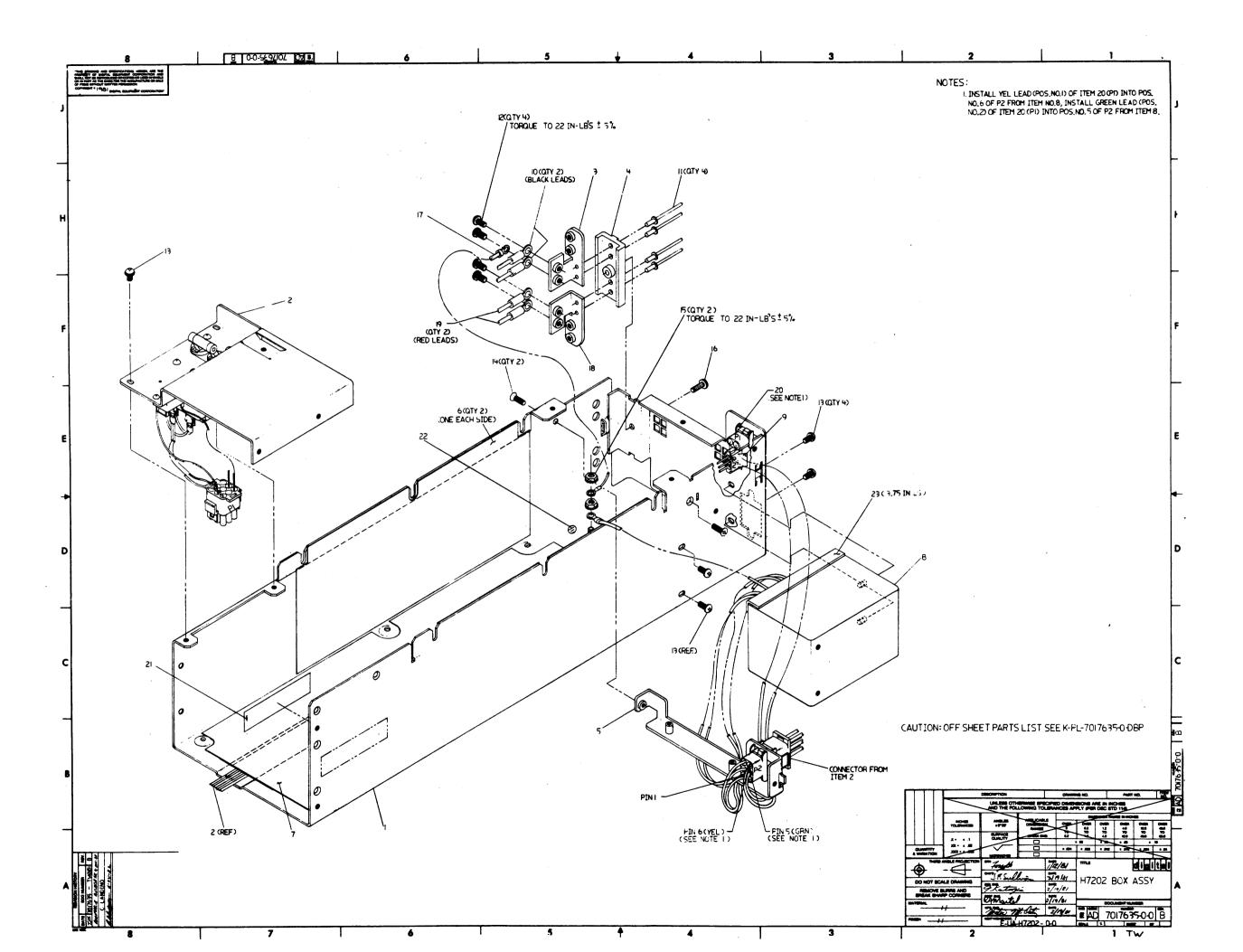


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123	23	D-UA-5413869-0-0 B-MD-7425185-0-0	5413869-00 7425185-00 9006809-00	H7213 MEMORY REG SPACER, PCB SPACER, HEX, ALUM WASHER, LOCK, S.S	1, يا:	38 ID X 1.0	1322			
756	756	A-SP-3700635-0-0	 9007801-00 9009243-00 3700635-05	NUT, KEP 6 PKG. POWER SUPPLY	-32) -32) H72(X5/16AF 02/H7200	A/R	* * * * * *		

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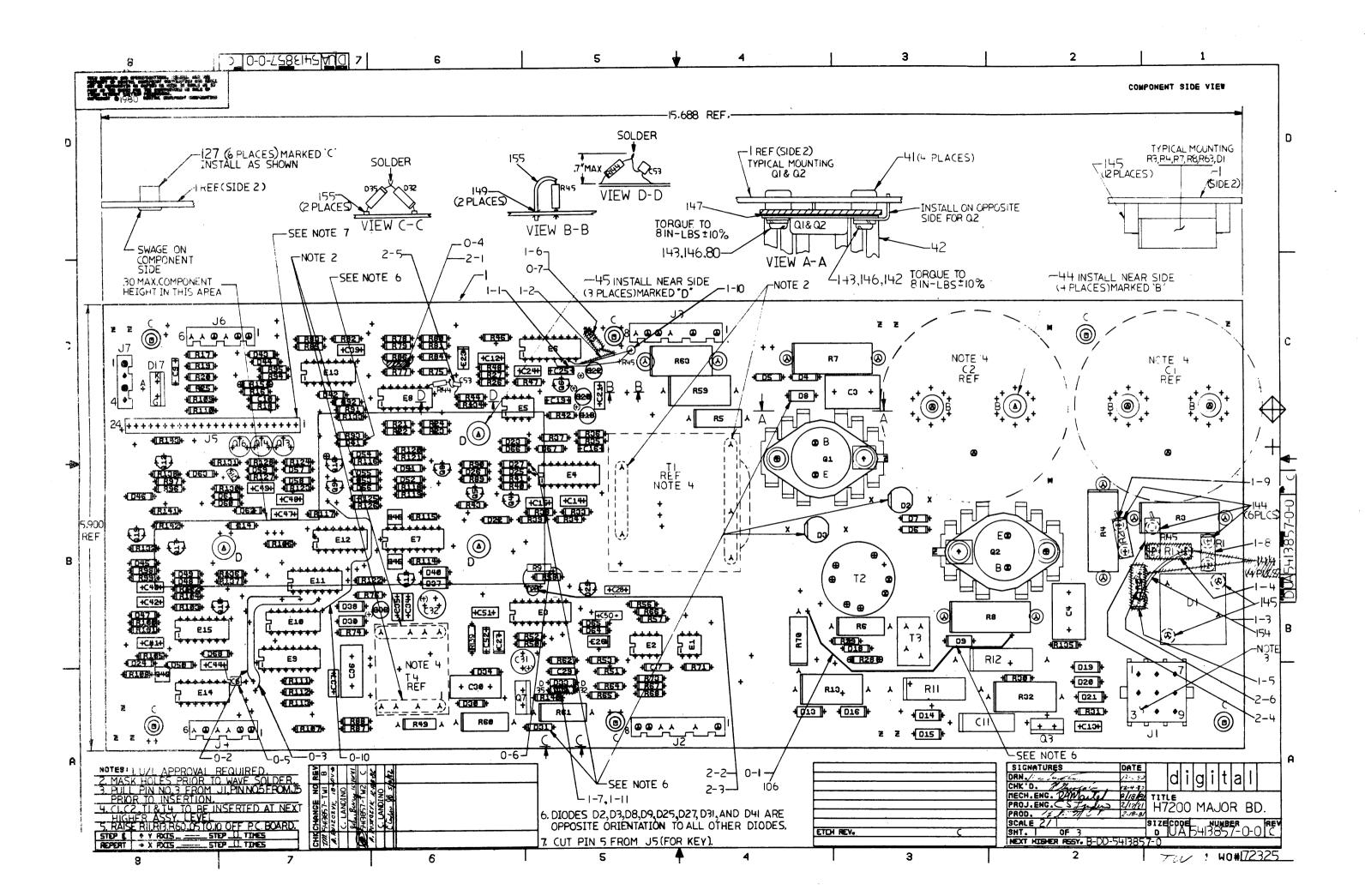
7 NOTE: ITEM 6 IS A CUTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMINED BY MFG.

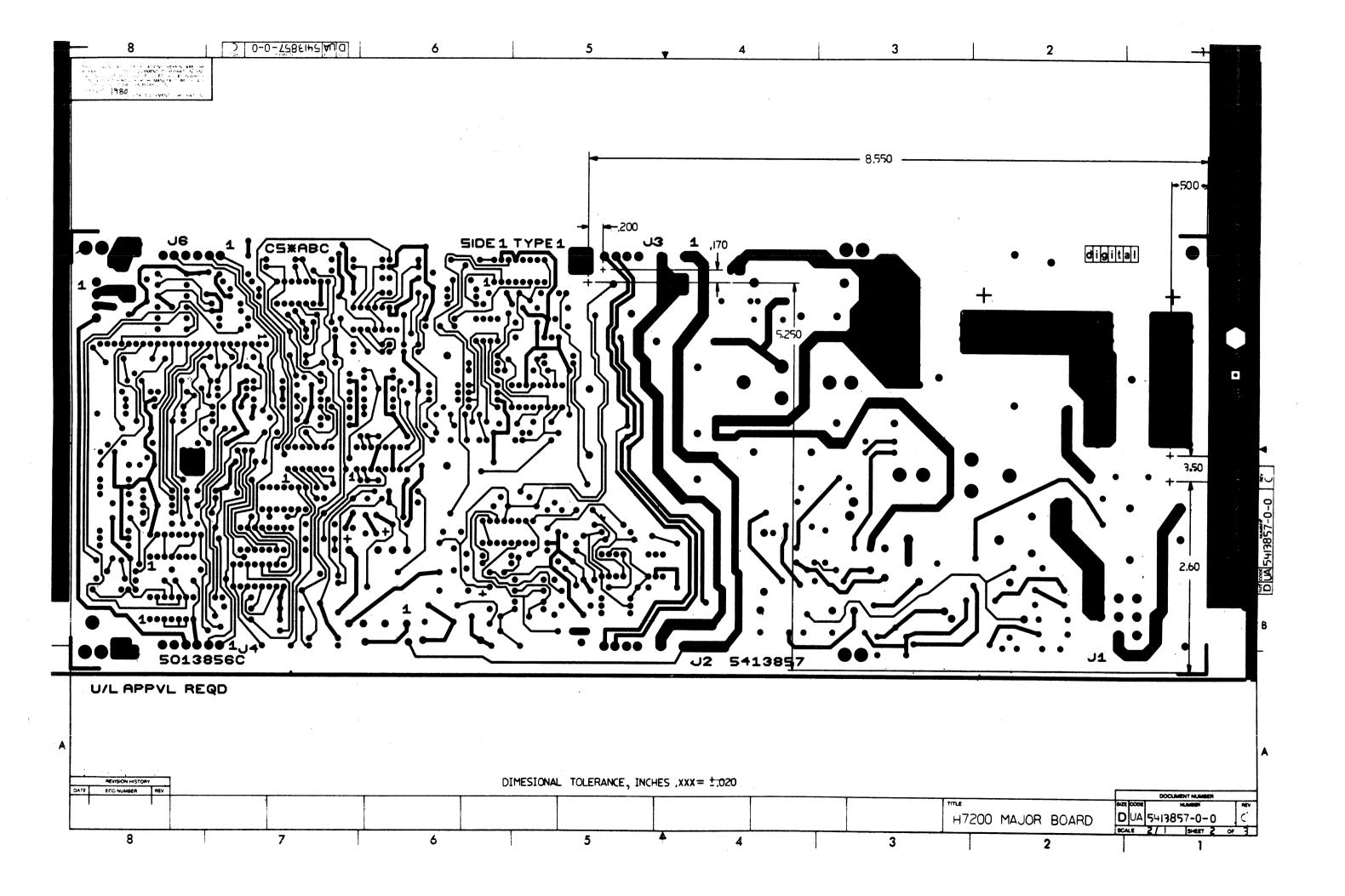
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			[D]		RESP.ENG.:	R. MARTEL	DATE: 19-FEB-81	+ SIZE CODE	DOCUMENT NUMBER ! NUMBER	REV
!			(E)			++++++++++++	DATE: 19-FEB-81	+!+++!++++	H7213-0-DBP	A ++++++
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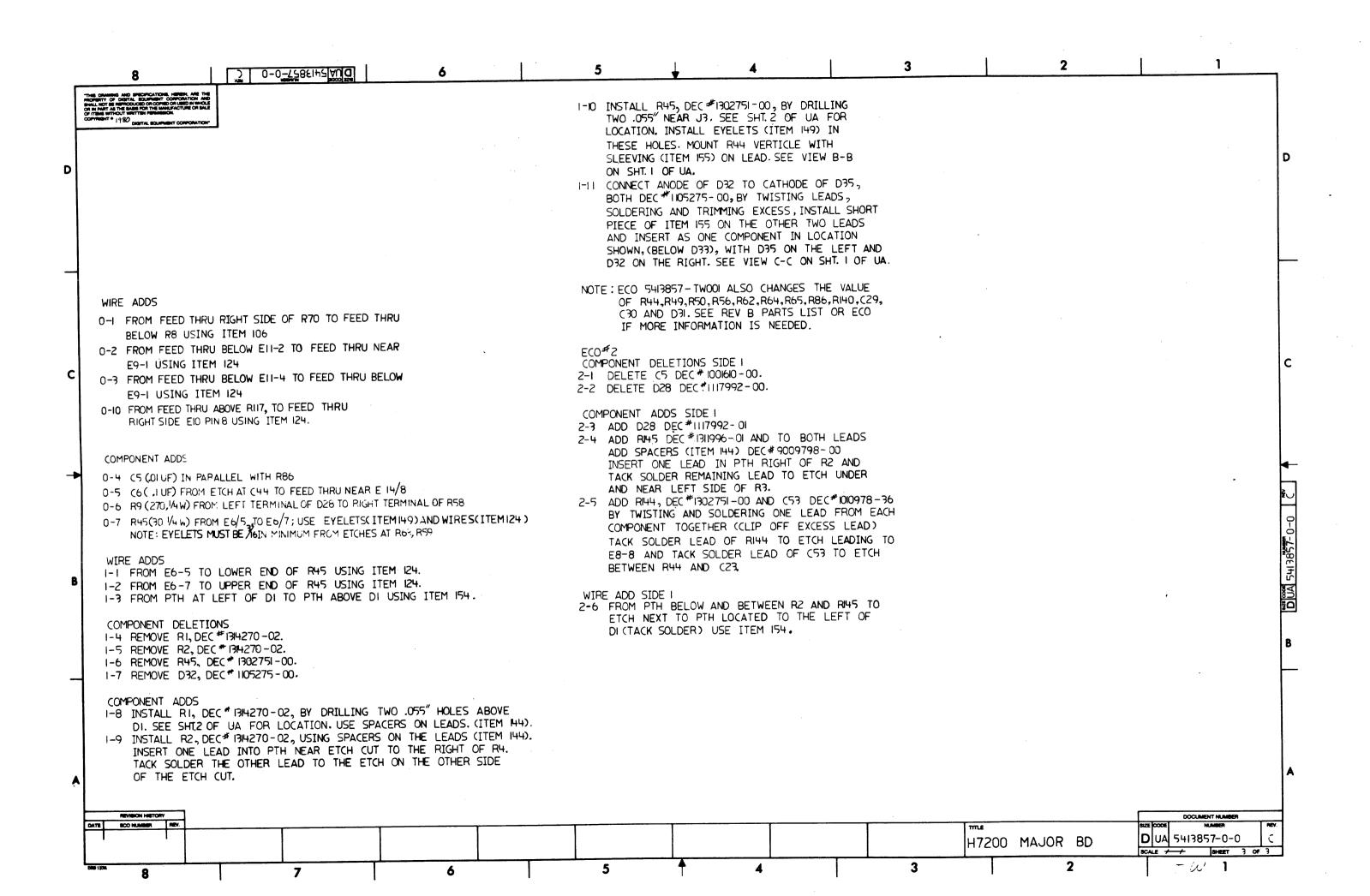


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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	12 34 56 78 9 10 11 12 13 14 15 16	D=IA=7018136=0=0 D=AD=7017636=0=0 D=IA=7424257=0=0 D=MD=7425398=0=0 C=MD=7425494=0=0 C=MD=7425401=0=0 A=P8=1217838=0=0 C=IA=7018142=0=0 C=IA=7018139=0=0	7018135-00 7017636-00 7424257-00 7424259-00 7424259-00 7425494-00 7425494-00 7425494-00 7018139-00 9006508-00 9010174-01 9006508-00 9009800-08 7018520-00	ASSY CHASSIS AC POWER ASSY BRACKET, POWER CONN INSULATOR, POWER CONNECTOR CONN MTG BRKT. INSULATOR, P.C.BOARD INSULATOR, SHIELD FILTER, LINE 115/250V, 47-63HZ, 6A DEC BUS HARNESS JUMPER, PWR RIVET, BLIND, .125 DIA X .419 LG SCREW, PAN, PHIL, SEMS 8-32X .31 L SCREW TRUSS PHIL 6-32X 5/16 SCREW, PHILLIPS FLAT AD, 6-32 X NUT, KEP , 10-32X 3/8 AF SCTEW, PAN, PHIL, TAP°G 8-16X .5	1 1 1 1 2 1 1 2 4 4 5 5	
18 19 20 21	18 19 20 21	D=IA=7424257=0=0 C=IA=7018139=0=0 C=IA=7018143=0=0	7016520-00 7424257-01 7016139-01 7016143-00 9009255-00	RETURN JUMPER BRKT-PWR-CONNECTOR POWER JUMPER BBU HARNESS LABEL, POWER SUPPLY, 2-15/16 " L	1 1 2 1 1	

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AUTOMATED BY PRTLST.3P(44)		PARTS LIST	QTY PER VARIATION	SHEET AT OF A4
LINE ITEM DOCUMENT NUMBER	PART NUMBER DE	ESCRIPTION	00 REFERENCE D	ESIGNATOR
1 D-MD-5013856-0-0 2375-678	1000012-00 1013466-06 1010978-24 1001765-00	RILL + ETCH BRD 55.0 MMF 100V 5%200PPM MIC 100.0 MMF 50V 5% CE 100.0 MFD 50V 10% CE 100.0 MFD 100V 20% Z5T DIS 2.2 MFD 50V +50-10 AL E 2.2 MFD 50V +80-20% Z5U CE 1 MFD 50V 10% CE	R 1 C46 C9, C13, C16, L 2 C18, C22	C19
901234567890123456789	1012784-00 1010274-02 1015755-00 1000009-00 1014169-00 1011740-00 1018001-01 1000023-00 1011740-05 1000055-00 1018929-00 1018783-00	11 MFD 400V 10% POLYPROMO 10%	R 2 C23, C250 R 2 C20, C33 L 2 C20, C33 L 2 C20, C33 L 2 C32 R 2 C33 R 2 C33	,035,040-042,045,06,
	PART NO: 5413857	DRN: J. FERGUSON DA	ATE: 16-NOV-81 D I	GIITAL
ENG ECO NUMBER REV SECT	ON A OF A	++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	rreitieiteiteiteiteiteiteitei
I I TNITTOL IR ISECT	ION VARIATION INDEX	CHK'D: K. SHEYTANIAN DA	ATE: 16-NOV-81 ++++++++++++++++++++++++++++++++++++	! !
Î B Î C) 	DES.ENG: C. LANDINO DE	ATE: 16-NOV-81	
I E				
[J [K			ATE: 16-NOV-81 K PL 5413	857-0-DBP B
im (N		ASSEMBLY NUMBER: TO D-UA-5413857-0-0 !8-	OP DOCUMENT NUMBER: FILE -DD-5413857-0-0 Z1310	NAME: EDIT # DB.PLS 6
	.+++++++++++++	######################################	PMENT CORPORATION AND SHALL NOT R SALE OF ITEMS WITHOUT WRITTEN CORPORATION	
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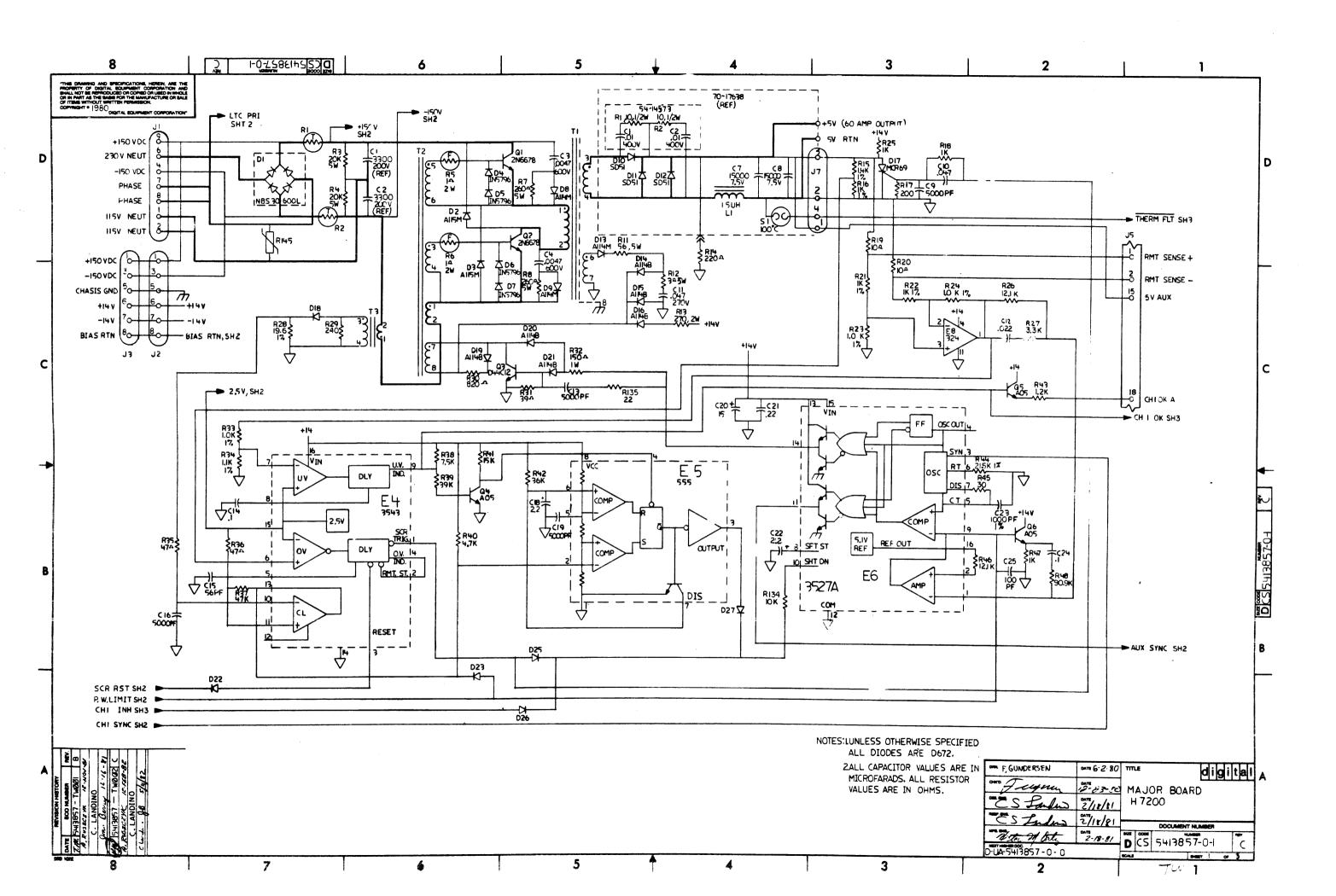
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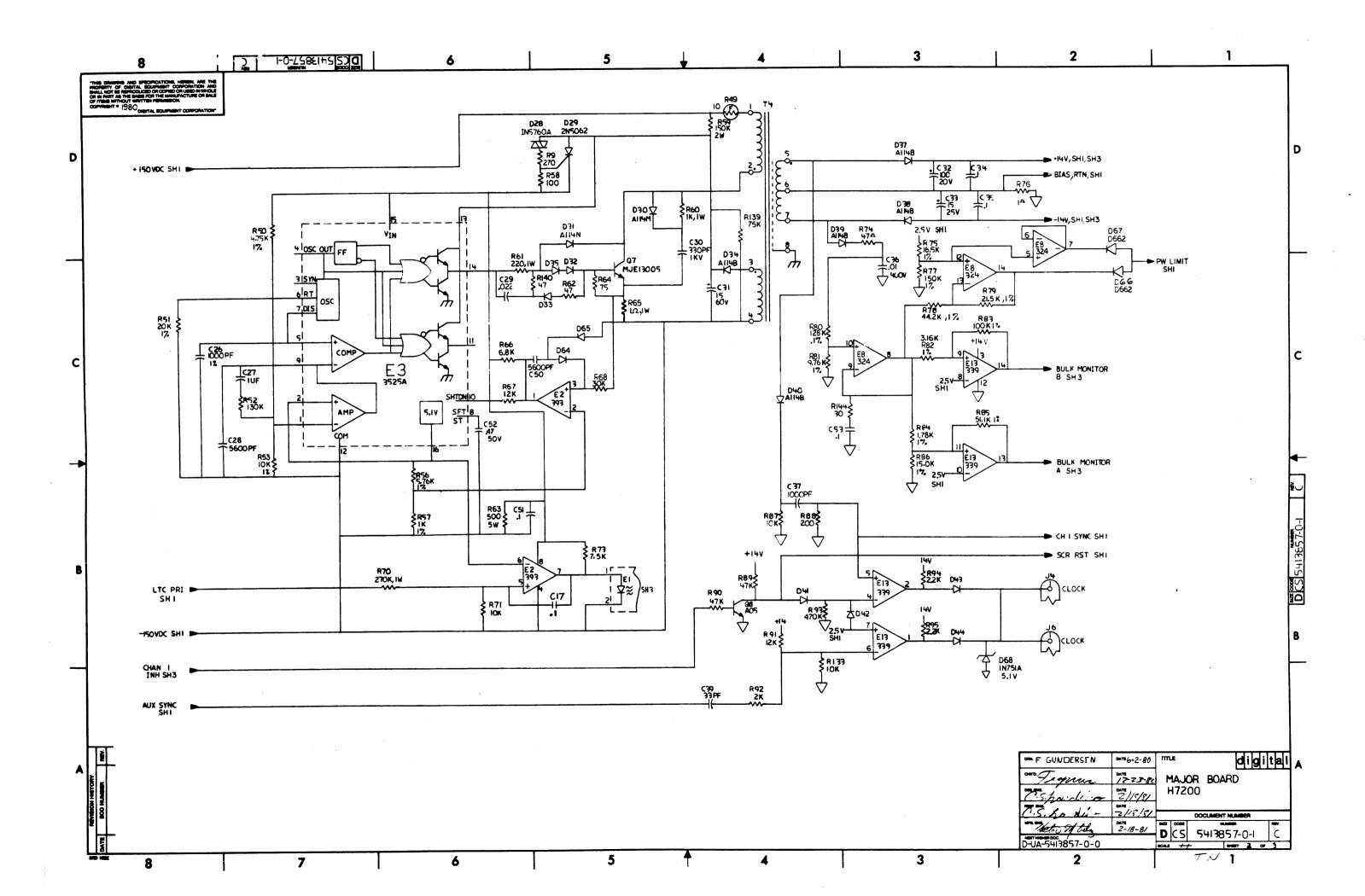
AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PARIS LIST PART NUMBER DESCRIPTION	SHEET AS OF AH QTY PER VARIATION DO REFERENCE DESIGNATOR
	1112595-01 1114245-00 1112595-02 1117061-00 1105796-01 1110994-00 11100113-00 1212297-02 1218241-00 1216122-08 1212518-04 1214789-00 1214789-00 1214789-00 1214789-00 1214809-01 1214809-01 1214809-01 1214809-03 1214809-03 1214809-03 1214809-03 1214809-03 1300202-00 1313337-00 1300288-00 13103313-00 1300365-00 13103313-00 1300479-00 14504 1470 K 25 W 5.0 % CCC	D14-D16,D19-D21,D34,D37-D40 D1
55 55 56 57 58 59 59 59 60 61 61 62	1300496-00	7
63 63 64 65 65 65 667 68 BLANK 69 70 71 72 73 74 75 75	1302377-00	2 R93,R108 1 R39 10 1 R34 10 7 R16,R21-R24,R33,R57 10 1 R85 2 1 R80 R7,R8 10 1 R75
D I G I T A L	H7200 MAJOR BOARD SECTION	A OF A K PL 5413857-0-DBP 3

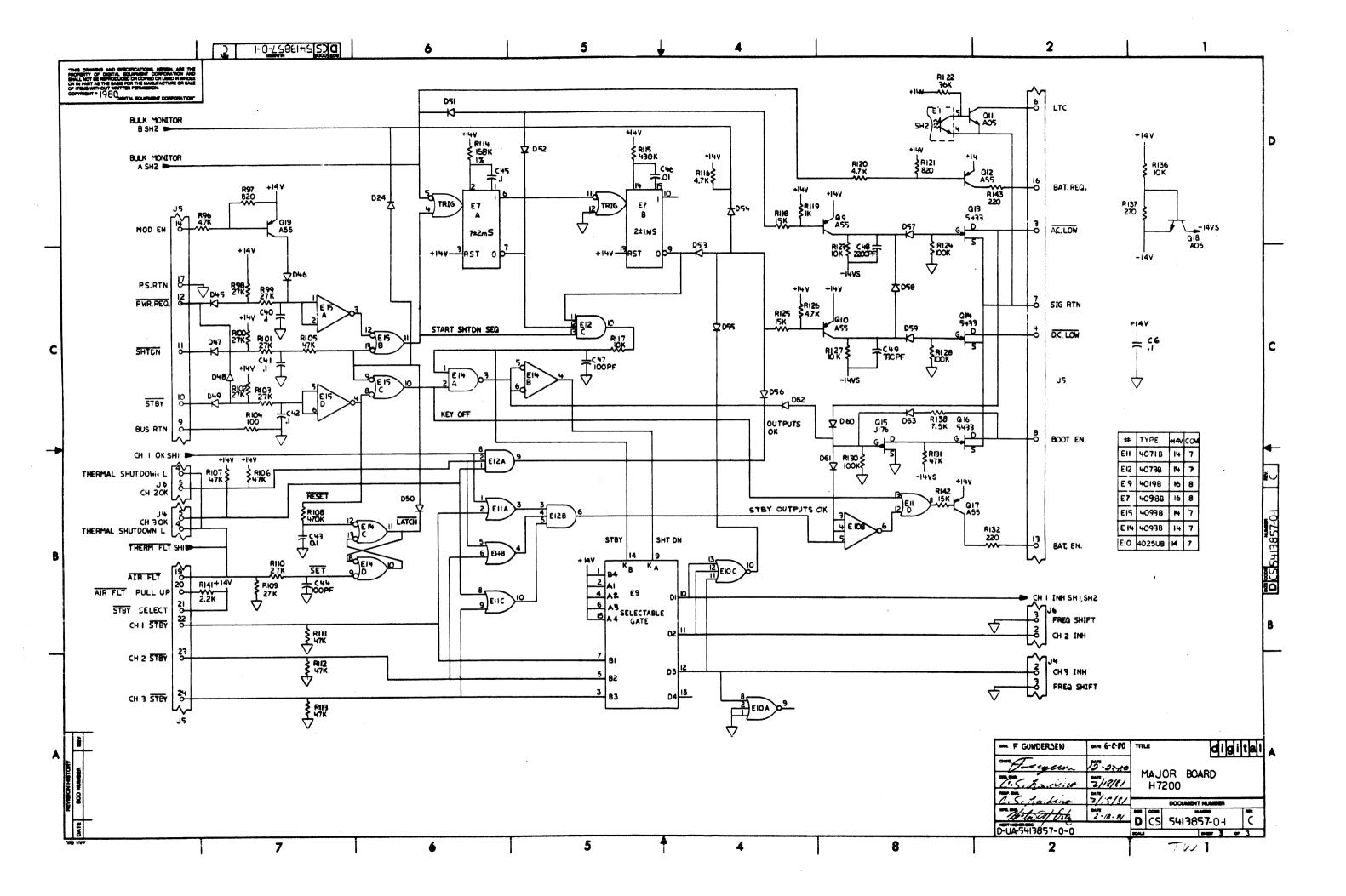
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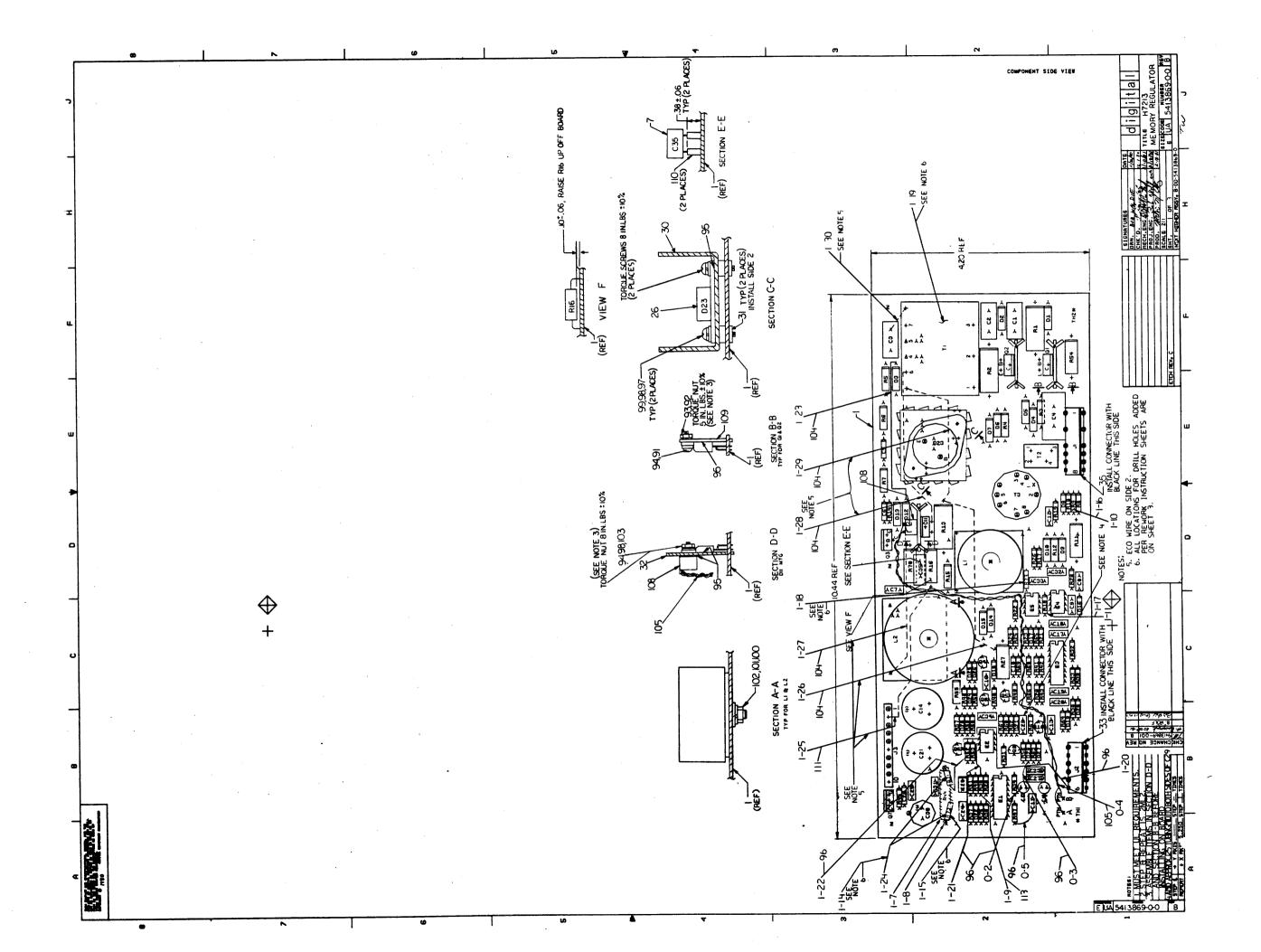
AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PARIS PART NUMBER DESCRIPTION	LIST OTY PER OO	SHEET A3 VARIATION REFERENCE DESIGNATOR
76 77 78 77 78 77 80 80 80 80 80 80 80 80 80 80 80 80 80	101-125-15-15-15-15-15-15-15-15-15-15-15-15-15		R3. R4 R77 R6 R32 R91 R141 R477 R88 R32 R97 R141 R477 R88 R517 R9 R109 R110 R718 R718 R132 R143 R718 R718 R144 R718 R718 R144 R718 R718 R718 R718 R718 R718 R718 R718
D I G I T A L TIT	'LE H7200 MAJOR BOARD	SECTION A OF A	SIZE CODE DOCUMENT NUMBER RE

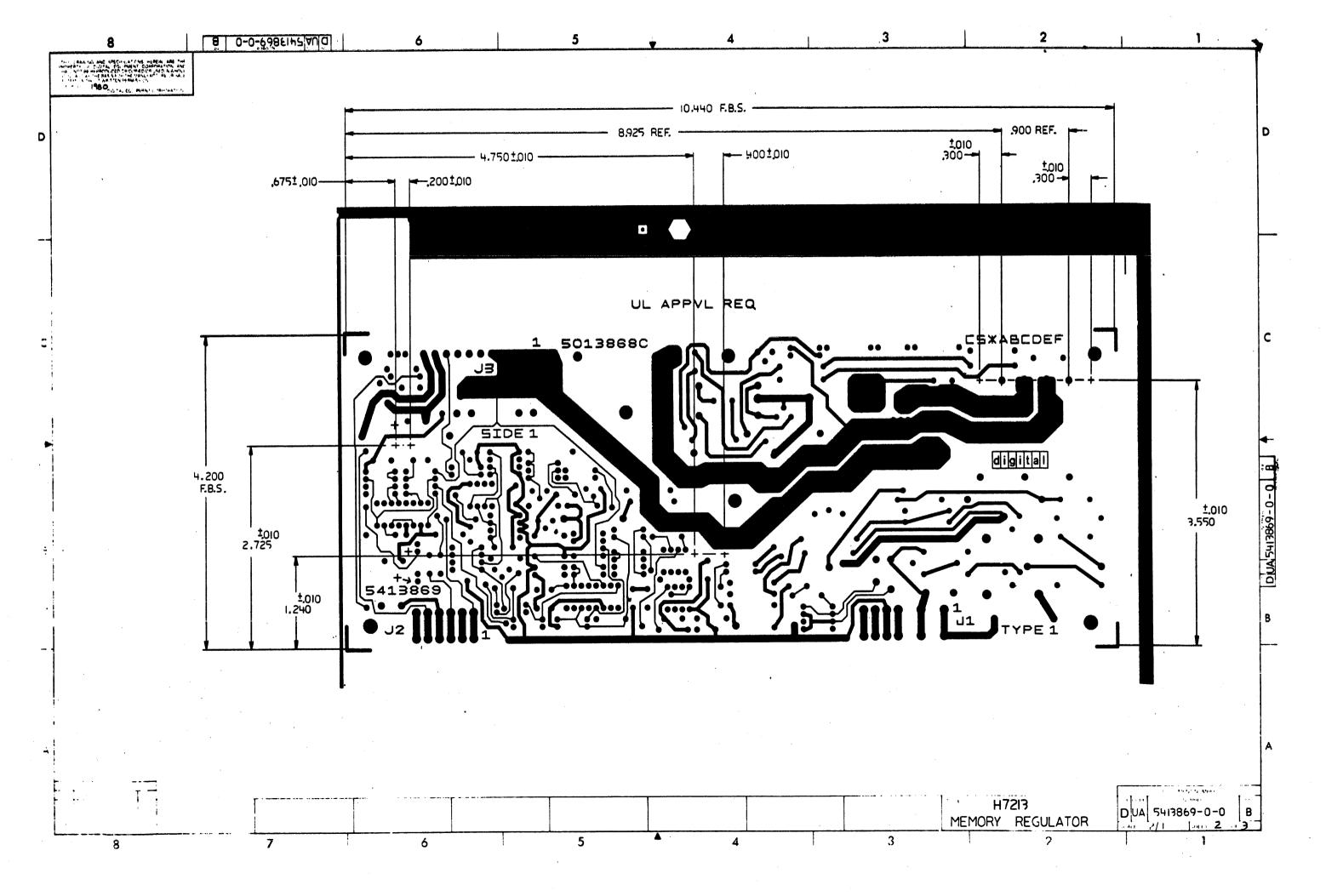
	IATED E	BY PRTLS	(144) NUMBER	PART NUM	SER DESCRIPT	ARTS LI		QTY PER 00	VARIATIO	IN REFERENCE	SHE DESIGNATO	ET A4 OF A4 R
1567890-034567890-034567890-0345 100000000000000444444444555555 10000000000	4567.890-1004567.890-10045 2222223555555555555555555555555555555			9105740-1 16177465-1 16177465-1 19177-1 19112108-1 1912108-1 1912108-1 1912108-1 1914156-1 1914156-1 19141836372-1 2113644-1 2113644-1 2113644-1 2113644-1 9007798-1 9007798-1 130868-1 130868-1 130868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1 1318868-1	WIRE (WRA CURF CURF CURF CURF CURF CURF CURF CURF	P)3DAWAGTO 1:3,32UNA 1:3,32UNA 1:3,32UNA 1:32UNA 1:32U	UL1423 2:100 PC MT 3:10 PC MT 3:10 PC MT 3:10 PC MT AD OCK	RHHUHHHHHHHHHHUHUHTTUTRHHUHHHHRR		130 583 130 4,0 130 58663 10 4,0 10 5 56663 10 5 56663		
156 157 158 159	NOTE: NOTE: NOTE: NOTE:	ITEM #. ITEM #. ITEM #. ITEM #.	124; .82° 106; .33° 154; .11° 155; .07°	IS USED IS USED IS USED IS USED								
D	I G	IT	A L	TITLE H7200	MAJOR BOARD	-+++++++++++	SECTION A	OF A	SIZE K	CODE DOCL	MENT NUMBE	R REV











8 0-0-698518-341 T REWORK INSTRUCTIONS WIRE ADDS SIDE 1: O-2 ADD ITEM 96 FROM EI PIN 12 TO C22(+).
O-3 ADD ITEM 96 FROM C22(+) TO D29 ANODE.
O-4 ADD ITEM 95 FROM ITEM 108 PIN 170 PTH A
(RED WIRE) CONNECT BLACK WIRE FROM PIN 2
ITEM 108 TO THE BLACK WIRE FROM PIN 2
O-5 ADD ITEM 96 FROM R47 TO CIL. ECO * I COMPONENT DELETES SIDE! (CMPONENT DELETES SIDE:

1-7 DELETE R44 DEC #1909094-00.

1-8 DELETE CERAMIC SPACERS DEC #9009798-01.

1-9 DELETE R38 DEC #1903047-00.

1-10 DELETE R9 DEC #1902602-00.

1-11 DELETE R18 DEC #1309416-00.

1-12 DELETE T1 DEC #1617439-00. COMPONENT ADDS SIDE I COMPONENT ADDS SIDE I

1-13 ADD R38 DEC® 186836-00.

1-14 DRILL ONE .042" HOLE AND ADD R71
DEC® 1305324-00.

1-15 DRILL ONE .042" HOLE AND ADD R72
DEC® 1303114-00.

1-16 ADD R8 DEC® 131594-00.

1-17 ADD RIB DEC® 131594-00.

1-18 DRILL TWO .042" HOLES AND ADD R73
DEC® 131594-00. ON SIDE 2 TACK SOLDER
R73 FROM ETCH RUN BETWEEN C33 AND
E5-4 TO R26. (SIDE CONNECTED TO C32)

1-19 DRILL TWO .055" HOLES AND ADD T1
DEC® 1818879-00. DEC # 1618879-00. WIRE ADDS SIDE ! 1-20 ADD ITEM 96 FROM E2-1 TO J2-6.
1-21 ADD ITEM 96 FROM E2-3 TO R38.
1-22 ADD ITEM 96 FROM E2-2 TO R71. (WRAP AND SOLDER TO COMPONENT LEAD)
1-23 ADD ITEM 104 FROM DIZ/CATHODE TO D3/CATHODE. WIRE ADDS SIDE 2 1-24 JUMPER R72 TO R71 (USE COMPONENT LEADS)
1-25 ADD ITEM III FROM J3-2 TO RIG. (TACK SOLDER BOTH SIDES TO ETCH) 1-26 ADD ITEM 104 FROM PTH ABOVE R27 TO RIS. (TACK 1-26 ADD TEM NOT FROM PTH ABOVE R27 TO RIS (120)
SOLDER TO ETCH)
1-27 ADD TEM NOT FROM L2 (SIDE CONNECTED TO
CITY NEG) TO DIZ/ANODE, (TACK SOLDER BOTH
SIDES TO ETCH)
1-28 ADD TEM NOT FROM DIJ/ANODE TO TI-6, (TACK SOLDER BOTH SIDES TO ETCH) 1-29 ADD ITEM 104 FROM RI3 (TACK SOLDER TO ETCH)
TO TI-8. (WRAP AND SOLDER TO COMPONENT LEAD)
1-30 ADD ITEM 104 FROM C3 (TACK SOLDER TO ETCH)
TO TI-9. (WRAP AND SOLDER TO COMPONENT LEAD) MEMORY REGULATOR E IA 5413869-0-0 B

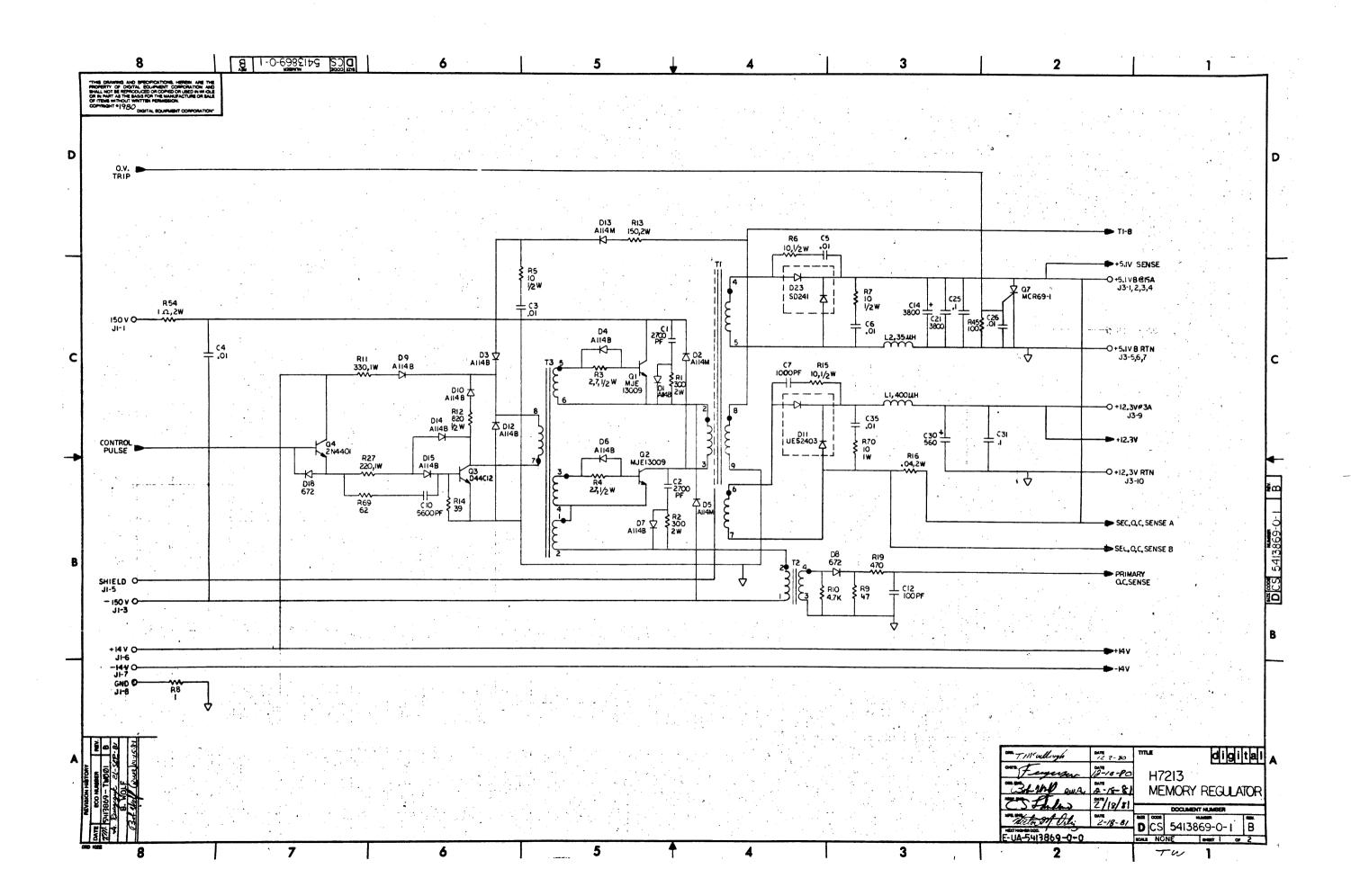
NUTONATEI .INE ITEI			PARTS LIST Description	GTY PER VARIATION REFERENCE DESIGNATOR
1237567890-1237567890-12	D-MD-5013868-0	-0 501386-000 1002600-000 100127-000 10010278-000 10010278-000 100101014-000 1001014-000 1001014-000 10014-000 10014-000 10014-000 10018	DRILL AND ETCH 120.0 MMF 100V 5×200PPM MIC 560 MFD 20V+100-10% AL E .01 MFD 50V +80-20% 25U CE .1 MFD 50V 10% POLYPRO .100.0 MMF 100V 5×200PPM MIC .01 MFD 400V 10% POLYPRO .1000.0 MMF 100V 1×200PPM MIC .01 MFD 50V 10% CE .01 MFD 50V 10% POLYPRO .01 MFD 50V 10% POLYPRO .01 MFD 50V 10% POLYPRO .01 MFD 600V 10% POLYPRO .047 MFD 50V 10% CE .047 MFD 50V 10% SX200PPM MIC .047 MFD 50V 10% CE .048 MFD 63V +50-10 AL EI .047 MFD 50V 10% SX200PPM MIC .048 MFD 63V +50-10 AL EI .047 MFD 50V 10% SX200PPM MIC .048 MFD 63V +50-10 AL EI .049 MFD 63V +50-10 AL EI .047 MFD 50V 10% SX200PPM MIC .047 MFD 50V 10% SX200PPM MIC .048 MFD 63V +50-10 AL EI .049 MFD 63V +50-10 AL EI .049 MFD 63V +50-10 AL EI .040 MMF 100V 5×200PPM MIC .041 MFD 63V +50-10 AL EI .042 MFD 63V +50-10 AL EI .043 MFD 63V +50-10 AL EI .044 MFD 63V +50-10 AL EI .045 MFD 63V +50-10 AL EI .047 MFD 63V +50-10 AL EI .048 MFD 63V +50-10 AL EI .049 MFD 63V +50-10 AL EI .040 MFD 63V +50-10 AL EI .040 MFD 63V +50-10 AL EI .040 MFD 63V +50-10 AL EI .041 MFD 63V +50-10 AL EI .042 MFD 63V +50-10 AL EI .043 MFD 63V +50-10 AL EI .044 MFD 63V +50-10 AL EI .045 MFD 63V +50-10 AL EI .047 MFD 63V +50-10 AL EI .048 MFD 63V +50-10 AL EI .049 MFD 63V +50-10 AL EI .040 MFD 63	
23 23 23 23 23 23 23 23 23 23 23 23 23 2	3 4 5 7	1102495-00 1112595-02 1117555-00 1116323-00 1109517-00 1110766-00	VZ= 3.3 5% .25W A114M PIV=600 I= 1A UES2403 RECTIFIER 150V 3A T0220 SD 241 PIV= 45 I=30A IN 914B TR= 4NS PIV= 75V SY IN 5248B VZ= 18.0 5% .50W MCR 69-1 THYRISTOR	1 016
REVI	ISION HISTORY CO NUMBER REV ITIAL A	BASIC PART NO: 541386 SECTION A OF A SECTION.VARIATION INC [A] OO [B] [C] [C] [C] [C] [C]	DEX CHK'D: B.WALDIE DES.ENG: B.WOLF	ATE: 12-22-80 ATE: 12-22-80 ATE: 12-22-80 H7213 MEMORY REGULATOR ATE: 12-22-80 DOCUMENT NUMBER ATE: 12-22-80
-++- T 0	HIS DRAWING AND S	! [H] ! [J] ! [K] ! [M] ! [M] ! [N] ! ++++++++++++++++++++++++++++++++++++	MFG.ENG.: H.ORTIZ DA ACSEMBLY NUMBER: TO D-UA-5413869-0-0 B-	PMENT CORPORATION AND SHALL NOT BE REPRODUCED REV PHENT CORPORATION AND SHALL NOT BE REPRODUCED REV PAGE: 12-22-80

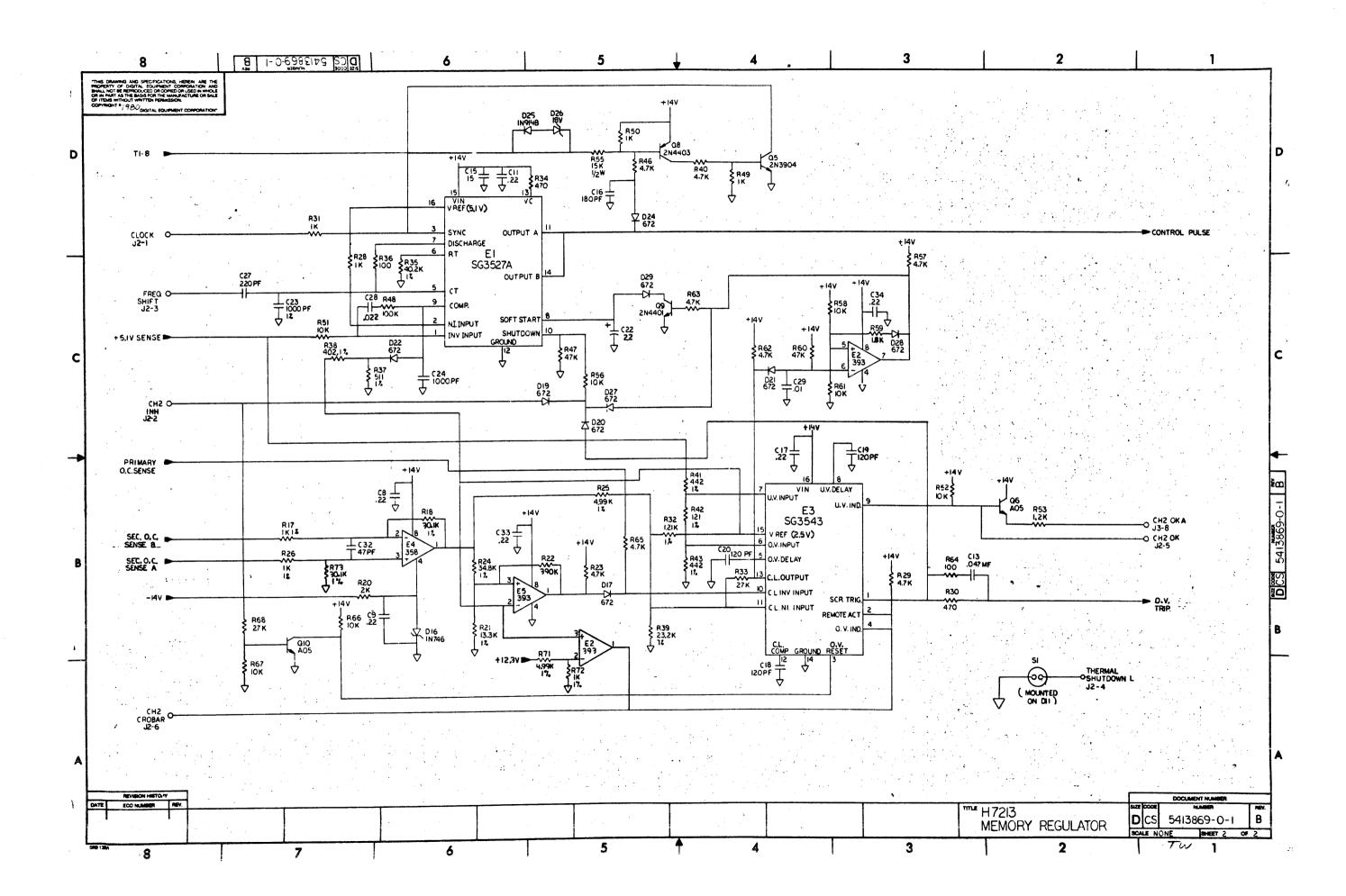
TOMATED BY PRTLST.3P(44) NE ITEM DOCUMENT NUMBER	PARTS PART NUMBER DESCRIPTION	LIST QTY PER V	SHEET A2 OF A3 PRIATION REFERENCE DESIGNATOR
30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 37 38 38 39 39 40 40 41 41	1217990-02 HEADER.156 BSKT 1300229-00 100.0 .25 W 1313347-00 220.0 1.0 W 1309855-00 300.0 2.0 W 1300298-00 330.0 1.0 W1 1300316-00 470.0 .25 W 1300365-00 1.0 K .25 W	RCPT 1 RC	J2 J3 J1 R36,R45,R64 R27 R1,R2 R1! R19,R30,R34 R28,R31,R49,R50 R10,R23,R29,R40,R46,R57,R62,R63
43 44 45 46 47 48 49 49 55 55 55 55 55 55 56 61 62 63 64 65 66 66 67 77 77 77 77 77 77 77 77 77 77	1300356-00	CC	R19, R30, R34 R28, R31, R49, R50 R10, R23, R29, R40, R46, R57, R62, R63 R51, R52, R56, R58, R61, R66, R67 R53, R6, R7, R15 R37 R53 R14 R12 R13 R38 R42 R17, R26 R35, R4 R41, R43 R44 R9 R24 R39 R47, R60 R20 R25 R16 R8 R33, R68 R32 R32 R55 R59 R69 R70 C28 G6, Q10
) I G I T A L	ITLE H7213 MEMORY REGULATOR	SECTION A OF A	SIZE CODE DOCUMENT NUMBER : REV

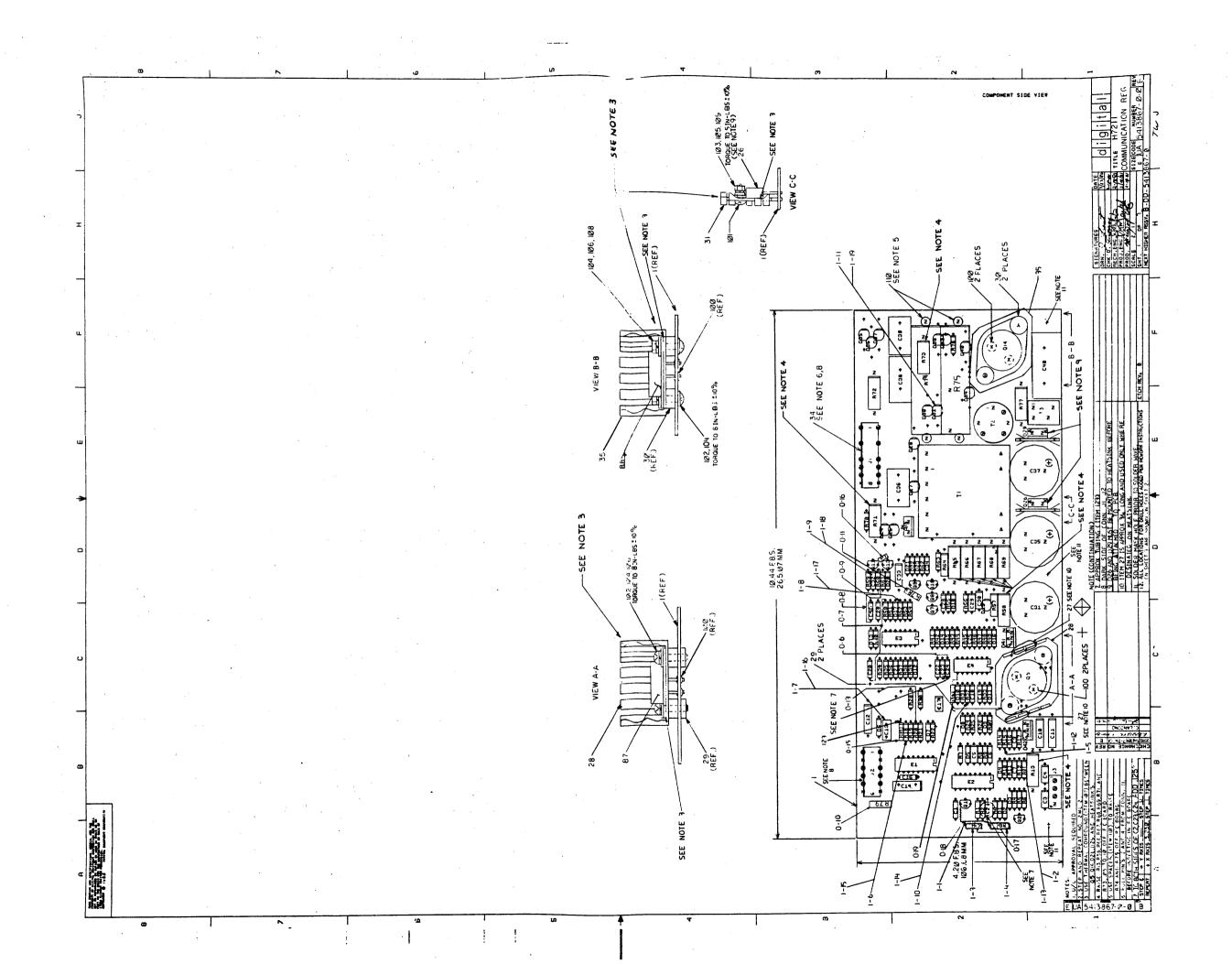
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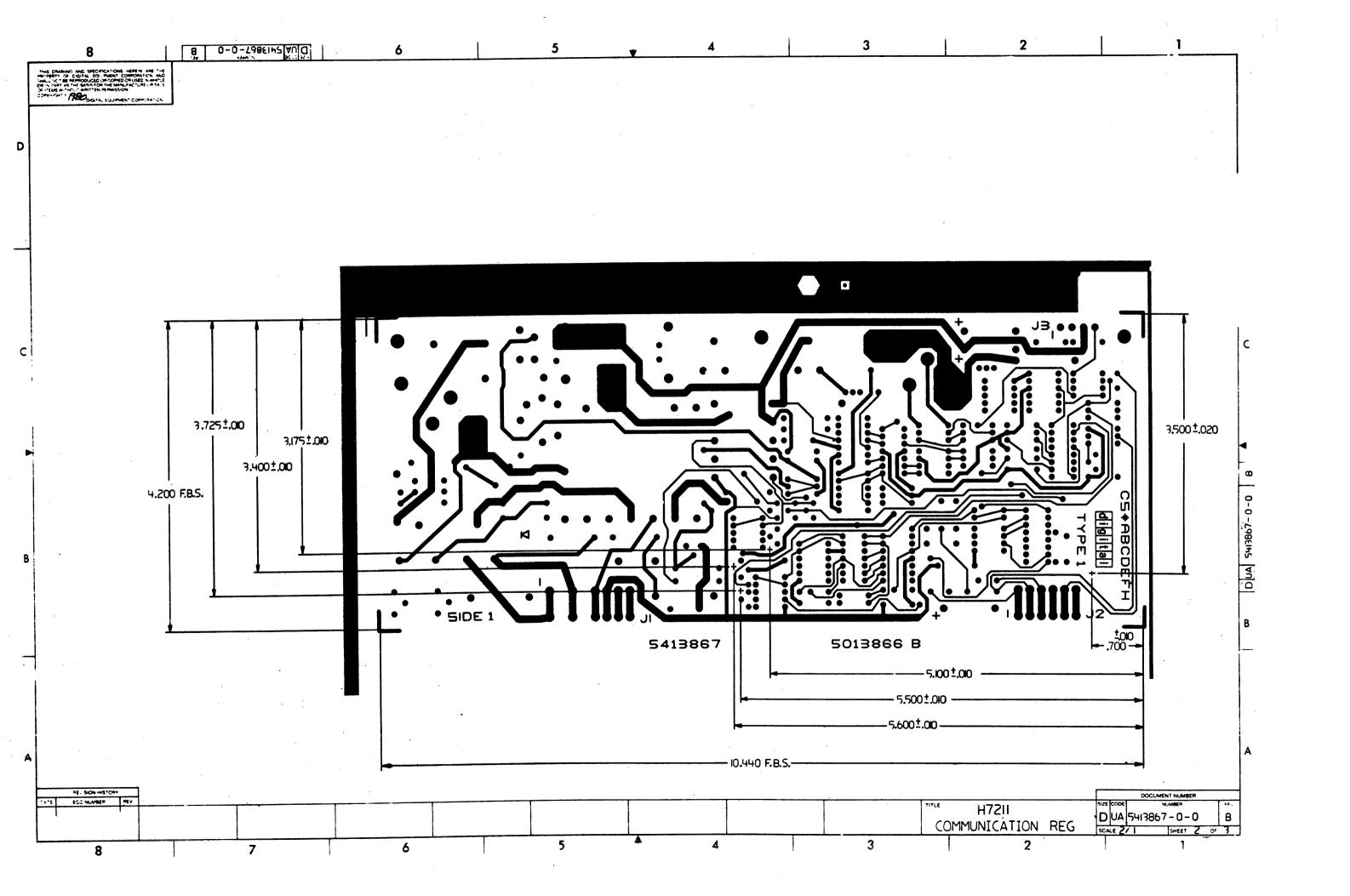
INE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	OTY PER VARIAT	REFERENCE DESIG	NATOR
778901234567890123345678901233456789012334567890123345678901233456789012334567890123345678901233456789000000000000000000000000000000000000		1509524-00 1513489-00 1513489-00 1512790-00 1517060-00 1517450-00 1617459-00 1617667-00 1617667-00 1617667-00 1916819-00 1916819-00 1917056-00 1917056-00 1917056-00 9006568-00 9006768-00 9007801-00 9007906-00 9007906-00 9007906-00 9007906-00 1314951-00 1314951-00	2N 3904 NPN 310MW SI 40 40 M 2N 4401 NPN 350MW SI 40 20 D 44C12 NPN 30W SI MJE13009 NPN 100W SI 2N 4403 PNP 350MW SI-40 30 PULSE XFMR.RATIO 40:3,3:1 XFMR P=360V S=25/62V XFMR.CURRENT RATIO 1:2:100 PC MT 35.0 UH 20% 15A 200.0 UH 20% 15A 200.0 UH 20% 15A LM 358N OP AMP DUAL LOW POWE SG3527J MODULATOR-REGULATING PUL LM 358N OP AMP DUAL LOW POWE SG3527J MODULATOR-REGULATING PUL SCREW PAN, PHIL 4-40X 5/16 SS NUT, HEX 4-40X1/4 AF X 3/ WASHER, LOCK, S.S. *4 WASHER, LOCK, S.S. *4 WASHER, LOCK, S.S. *4 WASHER, LOCK, S.S. *5 WASHER, LOCK, S.S. *6 WASHER, FLAT, .312 0.D. X .156 I NUT, HEX 10-32 X1/4 AF X 3 WASHER, LOCK, S.S. *10 WASHER, FLAT, .437 OD X .218 ID NUT, HEX 5-32X 1/4 AF X 3 WASHER, LOCK, S.S. *10 WASHER, FLAT, .437 OD X .218 ID NUT, HEX 5-32X 1/4 AF X 3 SPACER, CERAMIC, .186 ODX.078 ID WIRE, STRND, 18AWG, IPVC (UL1429) 220.0 MMF 100V 5X200PPM MICA 390.0 K .25 W 5.0 X CC THERMOSTAT, 03170, C3220, NORM OPEN HEAT SINK, TO-220, SINGLE TUBING, THIN WALL, .04210 UL	44 44 44 44 44 44 44 44 44 44 44 44 44	Q5, Q9 Q3, Q2 Q8 T3 T12 L14 E13 E2, E5 C27 R22	
11 NOTE: 12 NOTE: 13 NOTE:	ITEM NO 96 IS .17 ITEM NO 105 IS .75 ITEM NO 110 IS .10	1218375-00 1215228-01 9107278-05	HEAT SINK TO-220, SINGLE TUBING, THIN WALL, .04210 UL	AZR		

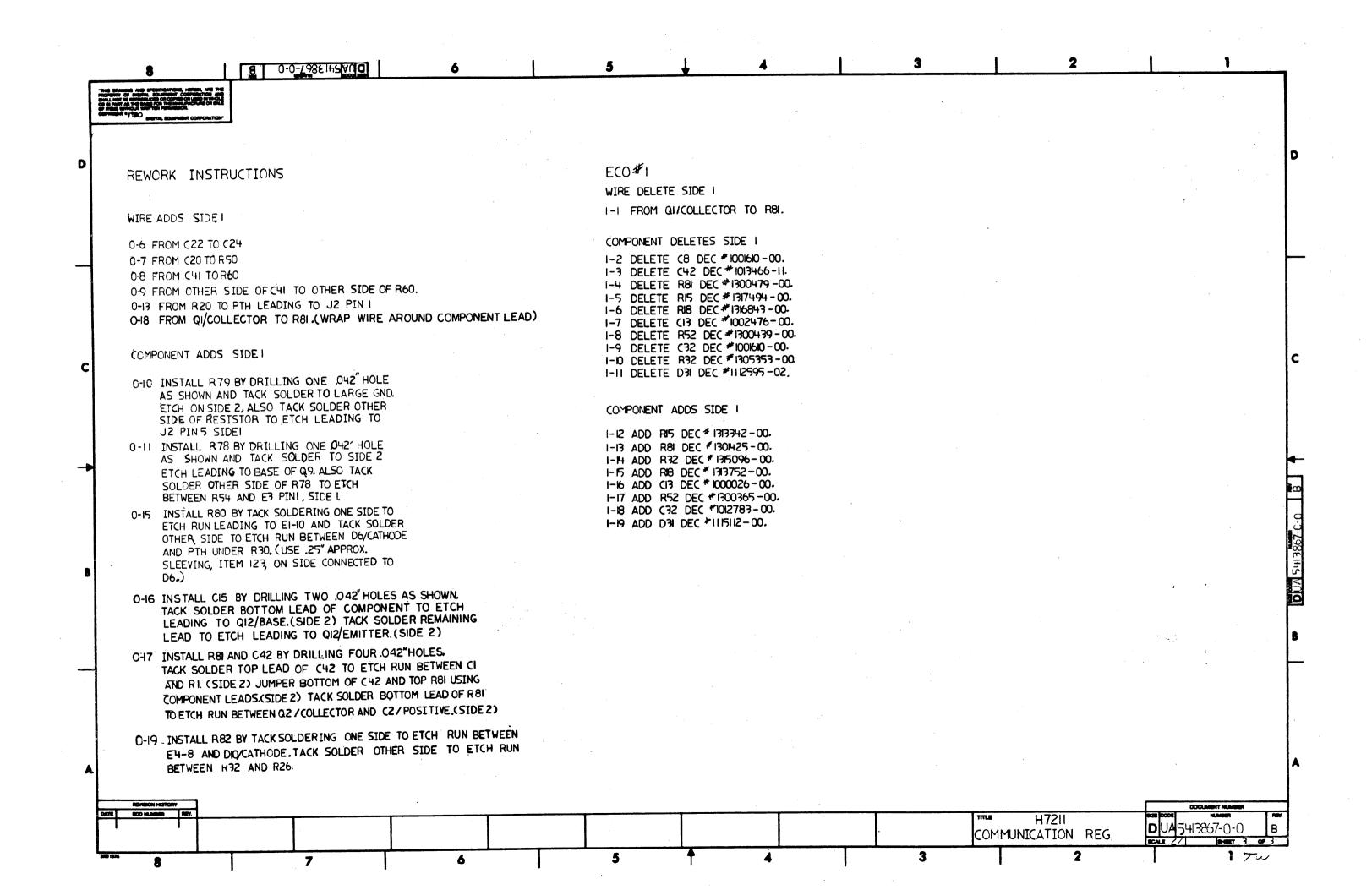
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AUTOMATED BY PRILST.3P(44)	PARTS LIST QTY FER VARIATION PART NUMBER DESCRIPTION OU YA REFERENCE DESIGNATOR
10013866-0-0	5013866-00 DRILL + ETCH BRD 1001610-00 .01 MFD 50V +80-20X ZSU CER 2 C6.C18 1000020-00 680.0 MMF 100V 5X200PPM MICA 1 C13 1005784-00 .01 MFD 50V +80-20X CER 3 3 C17, C23, C24 1011847-02 .1 MFD 50V +80-20X CER 3 C26, C39 1011847-03 .0047 MFD 600V 10X POLYPROP 1 C26, C39 1011847-03 .0047 MFD 600V 10X POLYPROP 2 CCR 2 C36, C39 1013466-04 .33.0 MMF 50V 5X CER 2 C21, C27 1013466-04 .33.0 MMF 50V 5X X7R CER 2 C21, C27 1013466-08 .680.0 MMF 50V 5X X7R CER 2 C22, C15 1012783-00 .022 MFD 50V +80-20X X7R CER 2 C26, C15 1012783-00 .022 MFD 50V +80-20X X7R CER 2 C26, C29, C30 1013466-12 .220.0 MMF 50V 10X X7R CER 2 C3-C5, C29, C30 1013466-12 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013466-13 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013466-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-11 .22 MFD 50V +80-20X Z50 CER 2 C7, C16 1013460-12 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-13 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .370.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .370.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-11 .22 MFD 50V +80-20X Z50 CER 2 C7, C16 1013460-12 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-13 .220.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .370.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-11 .220 MFD 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7, C16 1013460-10 .270.0 MMF 50V 10X X7R CER 2 C7 1013460-10 .270.0 MMF 50V 10X X
REVISION HISTORY ENG ECO NUMBER REV S INITIAL B S	ASIC PART NO: 5413867 DRN: J. FERGUSON DATE: 5-AUG-80 D I G I T A L TITLE PARTS LIST CHK'D: J. FERGUSON DATE: 21-OCT-80 H7211 COMMUNICATIONS REG DES.ENG: D. DRINKWATER DATE: 21-OCT-80 DOCUMENT NUMBER RESP.ENG.: C. LANDINO DATE: 21-OCT-80 DOCUMENT NUMBER RESP.ENG.: C. LANDINO DATE: 21-OCT-80 TOP DOCUMENT NUMBER REV ASSEMBLY NUMBER: D-UA-5413867-0-0 D-UA-5413867-0-0 DOCUMENT NUMBER: TOP DOCUMENT NUMBER: D-UA-5413867-0-0 D-UA-5413867-0-

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JTOMATED BY FRILST.3F(44) INE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	OTY PER VARIA	SHEET A2 OF A ATION REFERENCE DESIGNATOR
100750000000000000000000000000000000000	1215228-00 1216122-11 1217990-04 1217990-02 1213426-01 1301425-00 1300287-00 1300287-00 1300315-00 1300391-00 1300391-00 1300391-00	HEAT SINK, TO-220, KEYED HEADER. 156 65KT RCPT HEADER. 156 65KT RCPT HEADER. 156 85KT HEAT SINK TO-25 W 55.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 13	J3 J2 J1 R81 R65 R4, R47, R76, R60 R72 R57, R64 R20, R52 R23, R45 R33, R45 R38 R1, R3, R12, R19, R39, R40, R51, R53 R1, R3, R12, R19, R39, R40, R51, R53
499012345678901234567890123456777777777777777777777777777777777777	1301327-00 1301323-00 1301323-00 1301323-00 130132394-00 13023946-00 13023946-00 130233147-00 13023117-00 13023117-00 13031187-00 13031117-00 130311117-00 130311117-00 130311117-00 130311117-00 13051117-00 130511117-00 1310511117-00 131117-00 131117-00 131117-00 131117-00 131117-00 131117-00 131117-00 131117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00 13117-00	CCCCCCCCFFCFFAFFFFFFFFCBBFCCFCFFCFFFCBCCFCCFFCFFFCF		R62 R61, R79 R21, R79 R21, R63 R29 R14, R34 R9, R67, R69 R27 R8 R41, R56 R41, R48 R41, R48 R77 R8 R17, R46 R77, R46 R77, R46 R77, R30 R17, R37 R17, R30 R10 R592 R24
	TITLE H7211 COM	MUNICATIONS REG SECTION		SIZE CODE DOCUMENT NUMBER REV K PL 5413867-0-DBP B

AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER DESCRIPTION	S LIST OTY F	PER VARIATION YA REFERENCE DESIG	SHEET A3 OF A4 GNATOR
78 79 BLANK 81237 BLANK 81237 S81237 S85 S87	1916819-00 1917059-00 1917059-00 1917059-00 3543 P. 9000024-09 9006010-01 9007793-01 9006556-00 9006556-00 9006656-00 9007801-00 9008268-00 9008268-00 9008769-00 9009769-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00 9009798-00	THE PROPERTY OF THE PROPERTY O	25	
117 117 118 118 119 119 120 120 121 121 122 122 123 123	1304856-00	W 1.0 % RN55D-F10	17 ()	
D I G I T A L	H7211 COMMUNICATIONS REG	SECTION A OF A	SIZE CODE DOCUMENT K PL 5413867-0	-DBP B

AUTOMATED BY PRTLST.3P(44)

PARTS LIST

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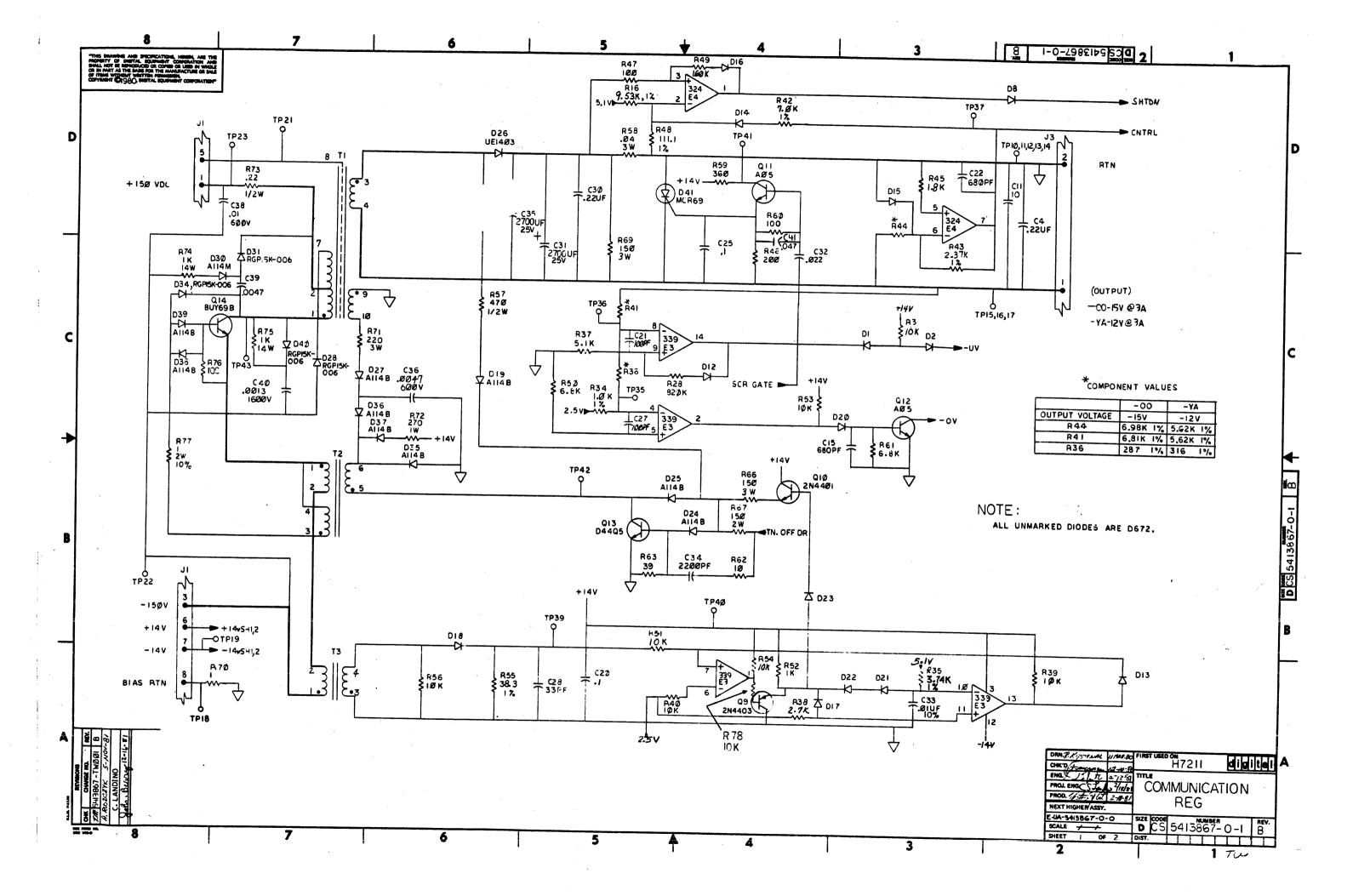
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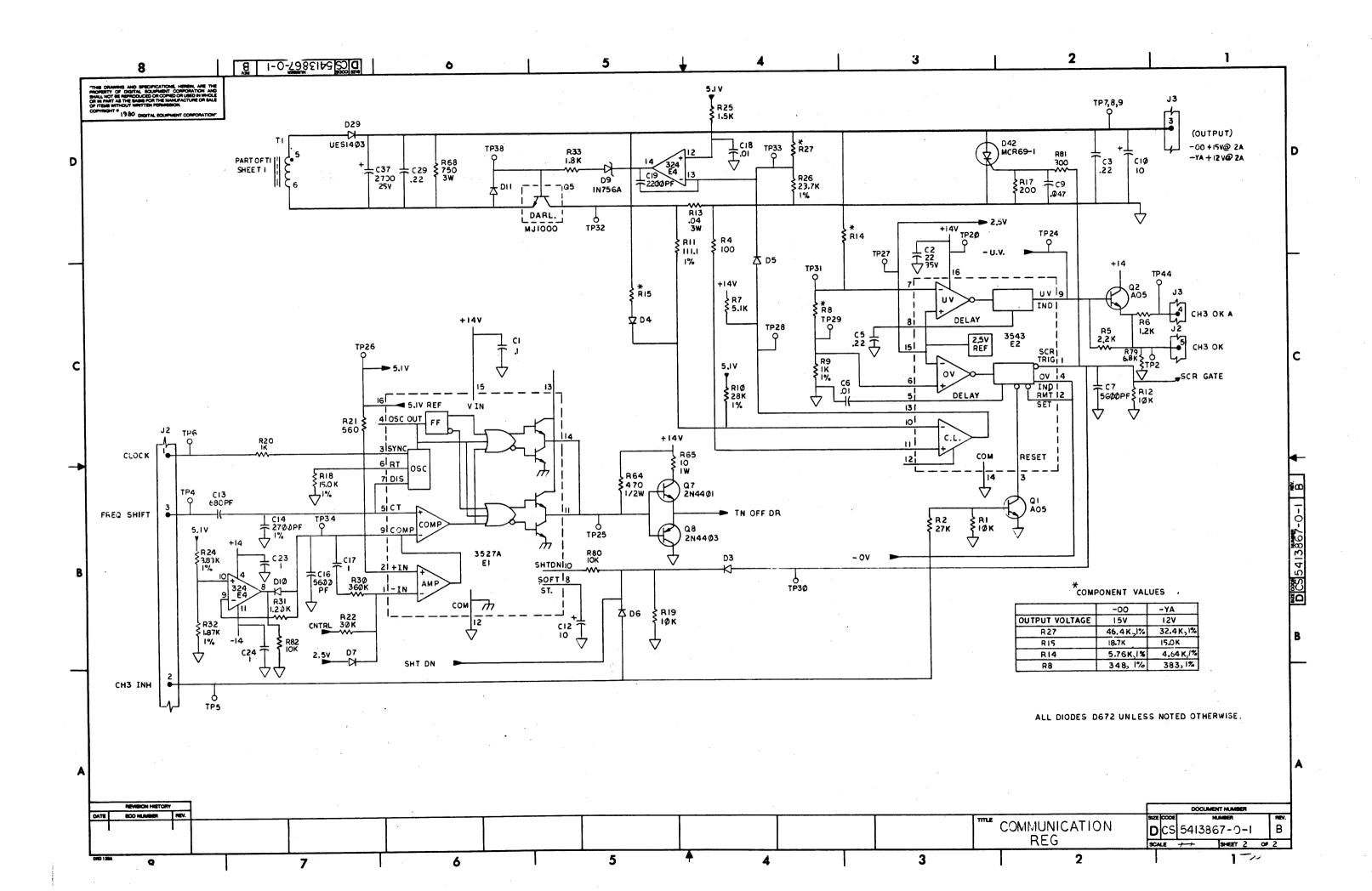
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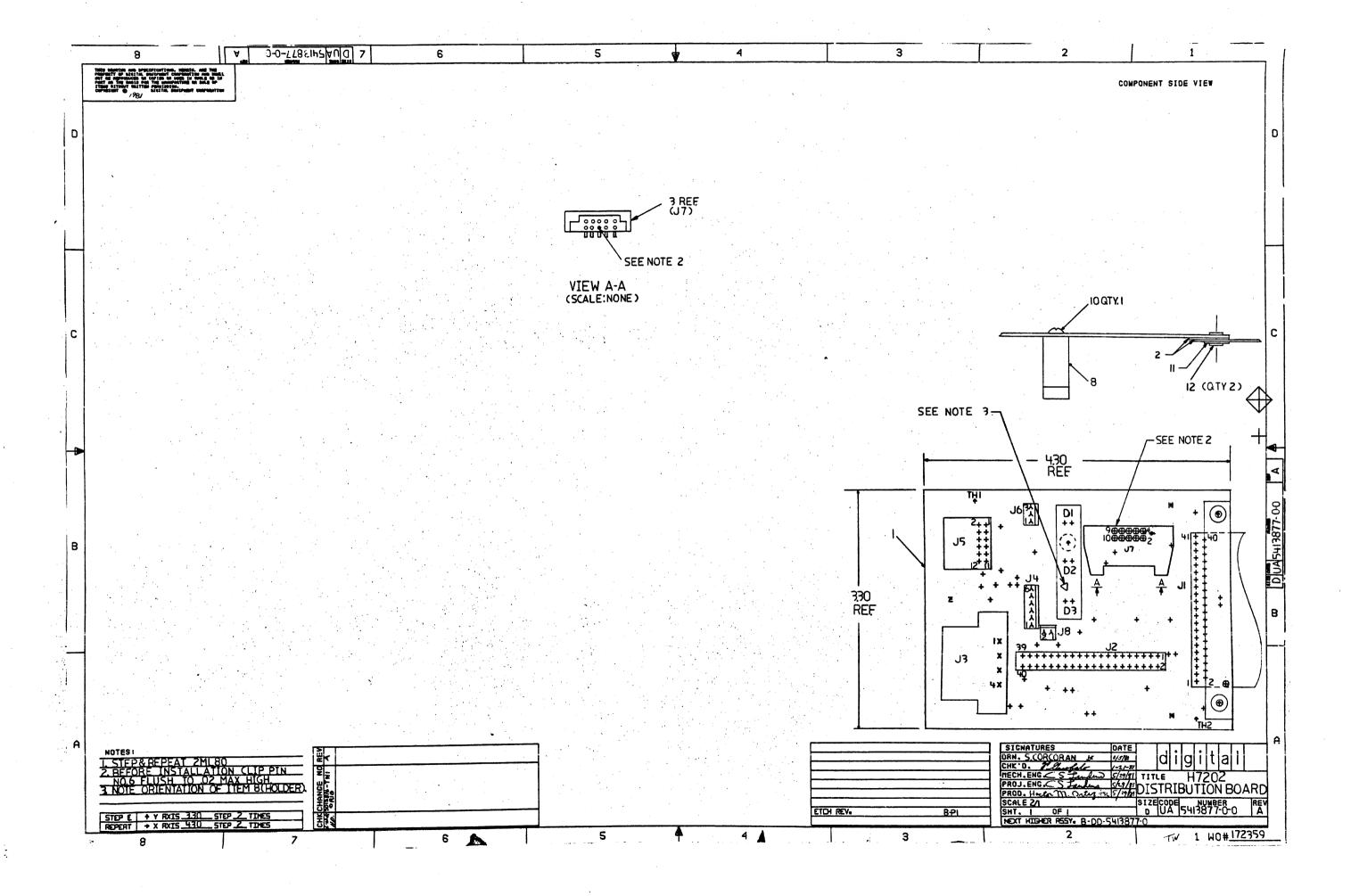
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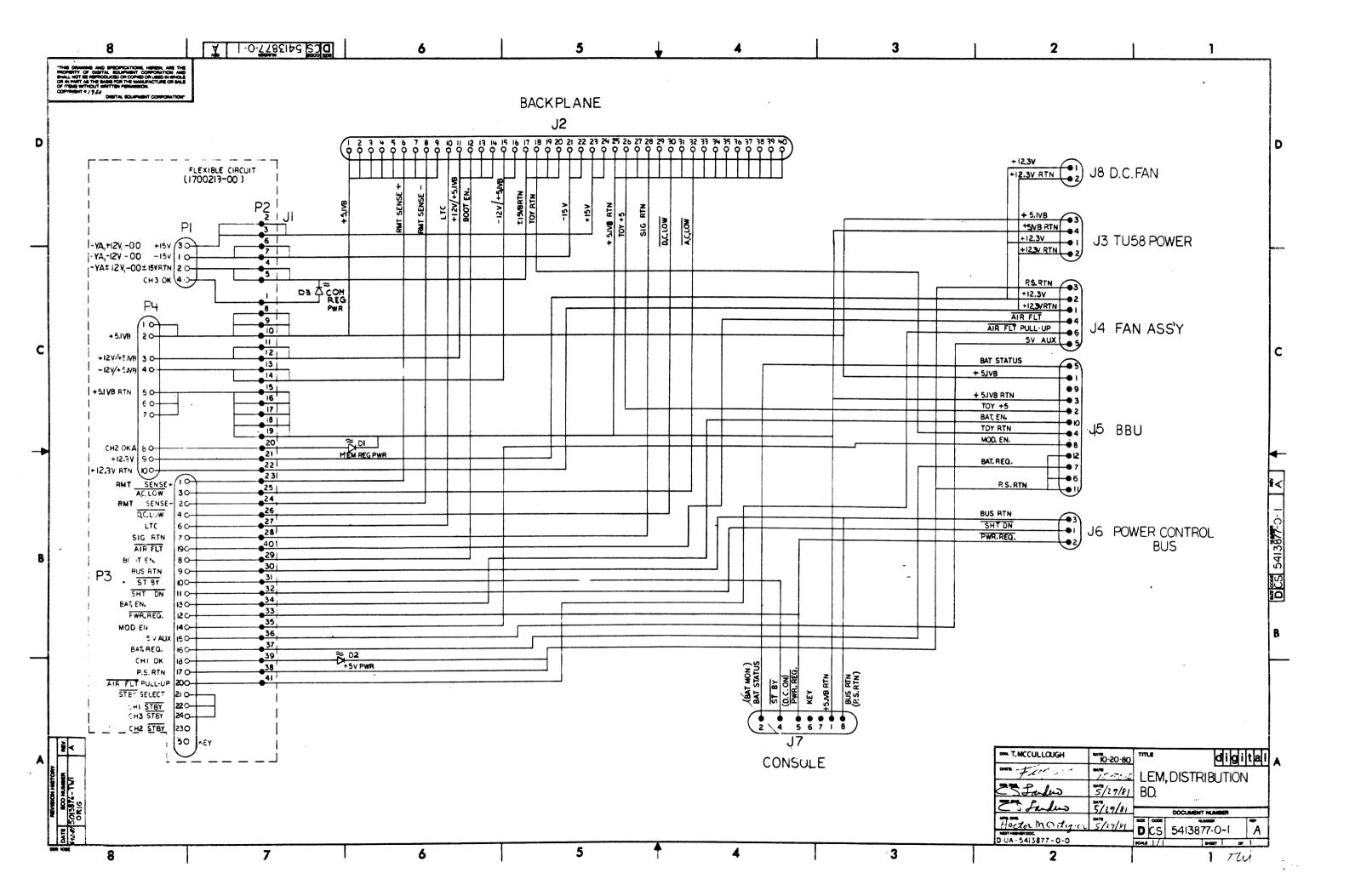






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H7202B POWER SUPPLY EXGINEERING
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Chapter 3

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ELECTROMAGNETIC INTERFACE

SIZE CODE NUMBER H7202-B-0

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CHAPTER 1 SCOPE

1.1 General Description - H7200 Series Power Supplies

This specification covers an off-line, high frequency switching power supply with a regulated 5 volt main output at 0 to 60 amps, memory and communications options outputs up to 400W total for all. It consists of a motherboard with supporting chassis and input- output connections. Size is approximately 15 x 50 cm. and 12 cm. high; weight is approximately 8 kilograms. Input power is 90-132 or 180-264 (internal select switch) at 48-63 Hz.

Outputs are divided into three groups: Main output (Channel 1): 5.1V main; Memory outputs (Channel 2): \pm 5V at 15A for MOS memory, and DC Fan/TU58 power; Com Outputs (Channel 3): \pm 15V.

All outputs except fan/TU58 +12V feature overvoltage and overcurrent protection and are regulated independently of one another. Battery backup and AC standby are operable for the memory power channel (CH2).

Additionally, AC low and DC low signals are provided as well as AC line clock and boot enable. This power supply will be UL recognized, CSA certified and comply with DEC-STD-119 Rev $\,$ B.

1.2 Reference Documents

DEC Standard 023 - Circuit Schematics
DEC Standard 60 - Policy Relating to Nationally and
Internationally Recognized Laboratories.
DEC Standard 102 - Environmental Standards
DEC Standard 116 - Workmanship Standards
DEC Standard 119 - Product Safety
DEC Standard 120 - Cooling Standards

DEC Standard 120 - Cooling Standards
DEC Standard 122 - AC Power Line Standard
DEC Standard 123 - Power Control Bus Standard
DEC Standard 139 - Reliability Prediction
DEC Standard 158 - Unibus

Engineering Print Set DEC Standard 002 - AC Power Wiring, Grounding, Receptacles and

DEC Standard 030 - Module Manufacturing Specification

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CHAPTER 2 ELECTRICAL SPECIFICATIONS (H7202B)

2.1 Input Specifications - AC Line

Note: Selection of low range or high range is accomplished through a tool operated slide switch located adjacent to the circuit breaker. A clear cover is also used to discourage casual operation.

2.1.1 Line Voltage

Note: Line impedance must be sufficiently low to assure less than 5% total harmonic distortion of the line AC waveform.

Low Range: (120V nominal) 90-132 (rms) single phase three

High Range: (240V nominal) 180-264 (rms) single phase three wire.

2.1.2 Line Frequency

47-63 Hz for either voltage range.

2.1.3 Line Current

Peak and RMS currents vary proportionally with line voltage.

Low Voltage Range: 8.5 amperes (rms) max. and 25 amperes

(peak) max. at a nominal 120 VRMS line.

High Voltage Range: 4.2 amperes (rms) max. and 12 amperes (peak) max. at a nominal 240 VRMS line.

2.1.4 Power Factor

The ratio of real power to apparent power shall be greater than 0.60 at full output load and nominal input voltage.

At first application of input voltage to the power supply, the stated surge current may be reached for 1/2 cycle of the input line. Following that, there will be repetitive peaks of lower amplitude for up to 10 more cycles of the line.

Maximums:

Low Voltage Range:

120 A (Peak)

ligh Voltage Range:

120 A (Peak)

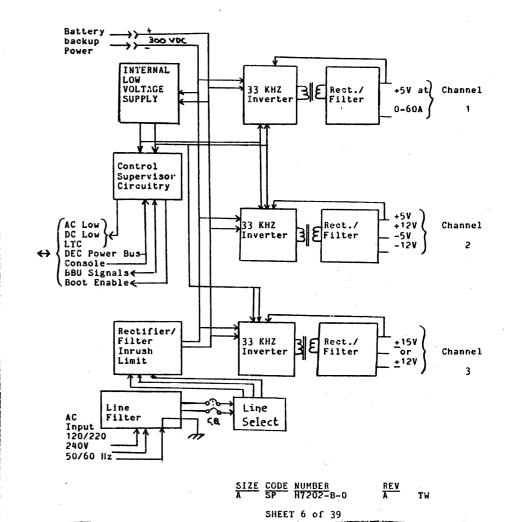
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FIGURE 1

FUNCTIONAL BLOCK DIAGRAM FOR H7200 SERIES POWER SUPPLIES



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2.1.6 Input Overload Protection

A two pole circuit breaker is provided to protect the input wire and components. This breaker is accessible and is a 15 Amp rating for both 120V and 240V settings.

2.1.7 Insulation/Hi-Pot

- 2.1.7.1 2120 V dc and 300 VAC, (rms) 50 Hz between input and frame and shields for 1 minute as specified in DEC-STD-119 Rev C, section 2, paragraph 2.
- 2.1.7.2 2500 VAC (rms) 50 Hz between input and output for 1 minute. In accordance with DEC-STD-119 Rev C. This excludes the line filter.
- 2.1.7.3 All isolation transformers shall have been high potential tested prior to assembly into a module or assembly. Devices without shields will have been tested to reinforced insulation levels (3750

2.1.8 Input Power

The average input power shall be $650~\mathrm{watts}$ max, with the outputs loaded to a total of $400~\mathrm{watts}$.

2.1.9 Grounding

The green/yellow bonding ground wire is connected to the metal case and to transformer shields. It is internally connected to the main 5V return.

2.1.10 Ride-Through Capability

All outputs are maintained within stated regulation limits for a minimum of 6 milliseconds after input power interruption at low line (either voltage range). AC low may be
asserted at the interruption; DC Low will follow a minimum
of 5 milliseconds after AC Low. (See power-down protocol
Section 5.3.) The delay from power interruption to AC low
increases with higher line voltage (either range) and
lighter loads.

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2.1.11 Efficiency

The ratio of output DC power at the power supply terminals to the input real power shall be 0.65 minimum taken at 5V/60A in either input voltage range. This ratio may degrade to .60 when other outputs are loaded.

2.1.12 Input Over/Under Voltage Conditions

Undervoltage: The power supply is capable of withstanding any undervoltage condition for any duration without damage or degradation.

Overvoltage: The power supply is capable of withstanding an input overvoltage of 150 VAC (RMS (low voltage range)) or 300 VAC (RMS) (high voltage range) for one second maximum without sustaining any internal damage or degradation. The outputs are protected from overvoltage (within crowbar range) under these conditions. Overvoltage in excess of this may be damaging to the power supply.

2.1.13 Input Line Noise Susceptibility

2.1.13.1 Transients

Note: A spike is defined as a voltage transient, of either polarity and of either common or differential mode, with a rise time (10% to 90%) of 0.1 micro-seconds or less and a fall time (to 10%) of 10 micro-seconds or more. The average power of spikes shall not exceed 0.5 watts. They may occur at any phase value of the input AC, adding to the instantaneous value.

2.1.13.1.1 Low Energy Transients

In accordance with DEC-STD-102.7 Rev C.

2.1.13.1.2 High Energy Transients

In accordance with DEC-STD 102.7 Rev \underline{C} .

2.1.13.2 Conducted Noise

In accordance with DEC-STD-102.7 Rev $\underline{\text{C}}$.

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2.2 Output Specifications

This power supply has a fixed 5.1V output on the major board with remote sense capability. Other outputs are provided from the regulator cards. These outputs are regulated at the card. (See Table I.)

2.2.1 Output Voltages (Table I)

For all outputs, The "Total Tolerance" is the root-sum-squared of errors due to:

Initial Tolerance Dynamic Voltage Limits Line/Load Changes Over Specified Range Long Term Stability (1000 hours) Temperature Drift Ripple

The "Total Static Tolerance" is the root-sum-squared of errors due to:

Initial Tolerance Line/Load Changes Over Specified Range Long Term Stability (1000 hours) Temperature Drift

2.2.2 Output Current (Table I)

The minimum and maximum currents for each output are specified in Table I. Where minimum loads are given, it indicates a minimum loading level necessary to keep other outputs within that channel grouping within regulation.

2.2.3 Wattage

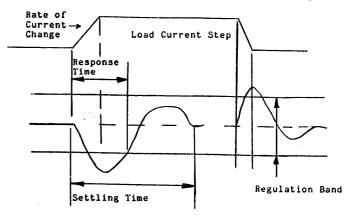
The maximum wattage from each output is the product of the max rated current and the sum of the rated voltage and the total tolerance. The maximum power obtainable from combining all output powers in any application must be limited to 400 watts.

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FIGURE 2.1 DYNAMIC RESPONSE TIME



2.1.13.2 Radiated Noise

In accordance with DEC-STD-102.7 REV C.

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2.2.4 Line/Load Regulation

Table I shows the maximum deviation of each output for gradual line and load changes. The line voltage range for this parameter is the full range specified in 2.1.1. The load current variation is from minimum load to maximum rated load as specified in Table I. Gradual change is defined for this purpose as covering the range in more than one second.

2.2.5 <u>Noise</u>

Table I shows the maximum peak to peak noise which is present on each output. Noise must be measured at the output terminals of the power supply. The noise voltage is superimposed on the ripple voltage. Noise is defined as repetitive disturbances at a frequency greater than 170 KHZ.

2.2.6 Ripple

Table I shows the maximum peak-to-peak ripple voltage present on each output at the specified measurement points. The output deviations classified as ripple are repetitive disturbances in the frequency range of 1 Hz to 170 KHZ.

2.2.7 Dynamic Response Time

Table I shows the dynamic response characteristics of each output channel. The load current change, the allowable overshoot/undershoot, the response time and the settling time are specified for each channel. Each channel is to be subjected to a maximum rate of load current change of 0.5 Amperes per microsecond (increasing or decreasing load). The load changes are to occur as a 50% duty cycle square wave at a frequency of 100 hertz max; within the min/max values specified in Table I. Figure 2.1 shows a typical output wave form and defines all the above mentioned terms.

2.2.8 Temperature Coefficient

The maximum temperature coefficient of each output of this supply is +0.02%/oC maximum over the operating ambient temperature range specified in 7.11. The measurement of temperature coefficient is to be made at 50% load on all outputs, nominal line voltage and after ten minute warm-up period with proper cooling air flowing.

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2.2.9 Short Term Stability

The changes in the voltage at each output during warm-up after the initial turn-on will be less than 0.2% of the output measured. This measurement is made from one second after the supply is turned on until component temperature stability is reached (no later than one hour after turn on). All other parameters and environmental conditions must remain constant during this test.

2.2.10 Long Term Stability

The long term stability of each output of the supply is 0.1%/1000 hours maximum when measured under constant line, load and environmental conditions. The conditions must be within the limits called out in this specification.

2.2.11 Output Overload Protection

Table I shows the type of current limiting scheme and initiating point (limits) for each output.

The description of each type is below:

Pulsing

In this mode, the output is turned off for some fixed period of time after the initiation point is reached. Upon reactivation of the output, the output current builds; then, if the initiation point is reached again, the output turns off again. The average current in this mode is low, but with higher peaks.

Constant Current

At the initiation point, the output current is held constant and the voltage dropped to a level sufficient to maintain the fixed current level.

Foldback

In this mode, once the initiation point is reached, the voltage is lowered and the output current level also lowered. At a short circuit, the current is approximately 40% - 60% of the initiation point current.

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The current limit on all outputs is configured such that the output will automatically recover to normal operation upon the removal of the overload.

All outputs are capable of operating for indefinite periods of time with short circuits on the output without causing damage or degradation to any portion or component of the supply.

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DIGITAL EQUIPMENT CORPORATION TABLE I

	INDLE	ı		
	UNITS			
Output Designator	*	#1	#2	#3
Power Channel	1 .	1	2	2
Nominal Voltage	V.de	+5.1	+12.3	+5.1
Rated Current (Max) Minimum Current	A.dc A.dc	60		2) 15.0 3) 2.0 (Note 1)
Total Tolerance Total Static Tolerance Initial Tolerance Static Line/Load	+mV.dc +mV.dc +mV.dc	230 150 100	1000 850 500	300 275 100
Regulation Ripple Voltage Noise Voltage	+mV.dc mV (p-p) mV (rms)	100 100 50	675 200 100	250 75 50
Dynamic Regulation T	(Figure 2)	5	0.6	2.0
Over/Undershoot (max) Response Time (max) Settling Time	mV ms ms	150 1.0 1.5	500 10 15	3.0 100 1.0 1.5
Current Limit Type		Pulsing	Pulsing P	ulsing
Initiation Point(min/max) Short Ckt Current (max) (max)	A.de (A (RMS) A de	55-75 5 	3-3.5 2.0	16.0/22.0
Overvoltage Trip Pt. Maximum Voltage	V demax/mi V de	in +6.5 +7.0	+14.5/15.5	+5.4/6.0 6.5

Note 1: The minimum load specified for the +5.1V output is required to maintain reg. on the +12.3V output. The 5.1V output will operate at no load but the +12.3V output will be below spec.

Note 2: Max continuous output current for +12.3V output is 3.0 amps.
Intermittent currents of up to 6.0 amps may be drawn
for several seconds if the duty cycle is kept below 2%. If
continuous currents of greater than 3.0 amps are drawn a thermal
protection switch will shut the supply down.

Note 3: The minimum load specified for the +12.3V output is required to maintain regulation. If the minimum load is below that specified the +12.3V output can be out of regulation on the high side. If the load falls below 0.75A the 12.3V output can rise sufficiently to cause an overvoltage condition and the module will shut down. See A-SP-H7213, paragraph 2.2.13.

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	TABLE I Units	(Contid)	gh Range
Output Designator		#4	# 5
Power Channel		3 .	3
Nominal Voltage	V.dc	+15.0	-15.0
Rated Current (max) Minimum Current	A.dc A.dc	2.0	3.0 0.3
Total Tolerance Total Static Tolerance	+mV.dc +mV.dc	580 500	700 630
Initial Tolerance Static Line/Load	±mV.dc	450	550
Regulation Ripple Voltage Noise Voltage	mV (p- mV (rm		275 300 150
Dynamic Regulation: (Figure Current Step Under/Overshoot (max) Response Time Settling Time	2.1) A mV ms ms	.2 200 0.5 0.5	.3 50 0.25 0.25
Current Limit Type		Foldback	Foldback
Initiation Point Short Ckt Current (max) (max)	A.de A (RMS) A de	2.1-3.0 0.5	3.1-4.0
Overvoltage Trip Point min/ma Maximum Voltage	ax V de (r V de	max) +17.0/19 +21.0	0.1 -16.7/18.8 -21.0

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2.2.12 Overvoltage Protection

All outputs except designator 2, table 1, have a crowbar protective device to prevent the voltage from exceeding the maximum fault voltage level indicated in Table I. The crowbars will be capable of discharging all internal and rated external capacitances. The maximum response time of the protection is 2 microseconds. The maximum voltage is not exceeded during the response time.

All overvoltage fault circuits (crowbars) are latching. The latched=off condition can be reset by removal of AC power for at least one minute or by removal of Power Request and Standby signals (console switch to "off").

2.2.13 Output Adjustment

All outputs are fixed with no means of adjustment. Channel 3 outputs are available for ± 15 V or ± 12 V. This selection is by choosing a variation of the module.

2.2.14 Output Sequencing

None.

2.2.15 Voltage Margins

There are no margin circuits or capability provided.

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CHAPTER 3 ELECTROMAGNETIC INTERFERENCE

3.1 Limits of Equipment Generated Interference

 $\underline{\text{AC Power Lines}}$ Compliance with FCC A and VDE A limit is provided by the line filter within this power supply.

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2.3 D. C. Input - Battery Backup Power

P1 is the inlet connector for Battery Backup Power. It is common with the bulk DC on the major board which is derived from line rectification. It is not isolated from the AC line. Proper cable mounting, shielding and insulation must be exercised when using this input to avoid circumventing the AC line filter and preserve signal integrity in adjacent cables. In systems that are high potential tested, this input is raised to the high voltage.

Note: This input is in common with the internal bulk DC voltage. There is no fusing or limiting provided. High surge and average currents are therefore possible from this interface, as with any 240V line connection.

There is internally stored energy available at this connection for several seconds after power removal following some internal failures. These two terminals must not be short-circuited together or to ground to discharge this energy.

This input is to be used only with isolated BBU units such as the $\rm H7240$ series hattery converters.

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APPLICATION SPECIFICATIONS

Input - Voltage Current and Cord Requirements

The input voltage range is selected with a screwdriver operated slide switch on the unit. The inlet connector is a three pin (IEC) connector. A 14 guage three wire cord is required. This cord is not supplied with the power supply. Removal of a small protective cover is required for operation of the line select switch switch.

4.2 Output Voltage, Current and Harness Requirements

The main 5 volt output is available at the connection blocks on the unit. A suitable bus bar or sufficient size wire is required to conduct the current used by the load and restrict the voltage drop to 100 mV between output terminals and remote voltage sense points for each lead, supply and return. Other voltages are available at the backplane connector on the distribution board (see D-IC-H7202). Voltage drops for these are determined by user requirements.

4.3 Load Duty Cycle

The power supply will operate within all specification limits continuously with any outputs loaded to full rated current, provided total DC output power does not exceed 400W.

Paralleling Requirements

Operation of this supply connected in parallel with any other power supply is not permissible.

4.5 Load Capacitance

The maximum external capacitance added in parallel at the load (for decoupling, etc.) for each output is:

+5V : 500 uf +12V : 100 uf +5VB : 500 uf

+15V -15V

270 uf 270 uf

These limits are necessary to insure system stability.

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4.6 Load Connection Characteristics

The interconnection circuit from the output to the remote sense attachment points is restricted in inductance and capacitance to assure system stability as follows:

maximum induotance (Normal mode) 50 Microhenries maximum capacitance maximum LC product 250 X 10^{-12} 500 Microfarads FARAD-HENRIES

4.7 Remote Sense

The main 5V output has remote sense capability. The maximum sense line length is one meter (each line). A capacitor of 0.1 uF is required at the sense line termination at the load. The sense lines are pin 6 (+) and 8 (-) in connector J2. The power supply output is protected from opening or shorting the sense lines. Crowbar is considered adequate protection for this purpose. Regulation limits are not guaranteed if the sense line resistance from the sense pins to the 5V output exceeds 0.50hm (each line). In the event of an open sense line, regulation takes place at output assembly on the H7200 power module.

4.8 Battery Back-Up Requirements

This power supply is capable of operating from a battery back-up with a 200V output interfacing with the primary bus, such as the H7240 series units. The power supply is capable of operation in this mode for 30 seconds maximum at rated load and temperature without forced air cooling. External forced air is required for operation for longer periods in this mode.

This unit is internally programmed to back up Channel 2 outputs (memory regulator). These are also the "standby" outputs (See Table I and 5.2.2).

4.9 Return Wire Voltage Offsets

The return lines for each power channel must be connected together externally for normal, safe operation. This is normally done at the load. In such cases, the difference in return wire voltage drops due to distribution losses must be less than 350 mV for any combination of two of the three power channels. This is necessary to prevent shortening the life of the internal ground isolation resistors between the power channel control circuits.

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5.1.3 Line Clock Signal

This signal is a timing reference at the frequency of and synchronous with the AC line. Its waveform is a square wave of approximately 50% duty cycle. Its source is an open-collector transistor sinking 20 mA. with 0.4V maximum in the low state and high impedance in the high state. High state maximum applied voltage is 15V, minimum impedance is 100 K ohms. The return lead is common with DC low (See Figure 5.1).

5.1.4 Battery Back-Up Enable

This signal when true (high state) asserts that a valid BBU condition exists in the power supply. This enables the BBU unit to assume the "ready" state which permits fast response to a power fail condition through the BBU request signal (para. 5.1.5).

When false, a non valid condition is indicated such as thermal shutdown or output failure. This allows the BBU unit to assume the "Off" state which does not allow fast response and permits minimum battery drain. A transition from True to False while BBU unit is supplying power, terminates the backup condition, removing power.

Electrical Characteristics:

True (high state): A voltage source of +12V (10.5 min, +14.5 max) at 10 mA. max current.

False (low state): High impedance source of greater than 100 K-ohms to +14.5V maximum.

5.1.5 Battery Back-Up Request

This is a momentary indication of a drop in the bulk DC power input to the power stages indicating input AC has dropped. This signal is asserted simultaneously with AC low but is de-asserted when the bulk DC is increased due to the input of battery derived power (See figure 5.4). The minimum assertion time is greater than a millisecond.

Electrical Characteristics are the same as Battery Back-up Enable (para. 5.1.4).

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CHAPTER 5 SIGNAL SPECIFICATIONS

5.1 Output Signals

5.1.1 DC Low

This signal when asserted (low state) indicates that the dc voltage at the input bus is not adequate to maintain regulation of the outputs, and that output DC power is about to drop. All outputs will remain in regulation for 1 millisecond minimum after this signal is asserted.

The output signal is provided on two lines leading to an ungrounded (floating) FET. On power turn-on this signal is asserted until regulation is reached.

Electrical Characteristics:

Asserted (low) - Capable of sinking 50 mA, at 0.49max.

Un-asserted (high) - Output impedance of 100 K ohms min, 15V maximum applied voltage.

5.1.2 AC LOW

This signal when asserted (low state) indicates that the dc voltage at the input bus is at or near the value necessary to guarantee the 5 mS. hold-up prior to DC low. This value is below the specified line voltage but above the minimum required for regulation. When un-asserted (high) this signal indicates adequate input voltage.

On power turn-on this signal is asserted until after DC low is de-asserted. On power turn-off this signal is asserted 5 milli-seconds minimum prior to DC low (See Figure 5.2, 5.3).

Electrical characteristics are the same as DC low (see 5.1.1). The return lead (FET source) is common with DC

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5.1.6 Boot Enable

This signal is valid on power up between de-assertion of DC low and AC low. When true (high state) it indicates that memory voltage(s) had been good and uninterrupted since assertion of DC low on power down. When false (low state) it indicates that memory voltages had been interrupted. Electrical characteristics are the same as DC low.

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5.2 Input Signals

5.2.1 DEC Power Bus

The power supply responds to these two signals (Power Request and Total Shutdown) in accordance with DEC STD 123.

Power Request:

All outputs are inhibited until this signal is pulled low externally, except for the Standby mode.

Total Shutdown: All outputs are inhibited whenever this signal is pulled low externally. This signal overrides all other

signals.

Normal output signal and power output sequencing per section 5.3 occurs when these signals are used.

Standby (Console Signal) 5.2.2

This input enables the "Standby" outputs when pulled low externally. It overrides Power Request but not Total Shutdown. "Standby" is internally programmed to be the "Channel 2" outputs (memory regulator) (See Table I).

Low State (asserted):

Less than 1.0V Source Current is -1.0 mA. max.

High State (unasserted): Greater than 10V,

Sink current: 1 uA. max.

5.2.3 <u> Module Enable</u>

This signal when asserted (low state) indicates that primary power is coming from the battery converter. This signal forces a "standby" state by internally de-asserting power request. This shuts down the Channel 1 and 3 outputs. An AC Low - DC Low sequence precedes the fall in actual DC output. See figure 5.4.

Electrical Characteristics:

Low State (asserted):

External low impedance to power supply return capable of sinking 3 mA. minimum with a max. voltage of 1 Volt.

High State (unasserted): High impedance, capable of blocking +15 V with 1 micro amp max. lcakage.

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SIZE CODE NUMBER BP H7202-B-0

REV TW

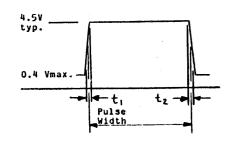
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5.3 Power-Up/Power-Down Sequencing

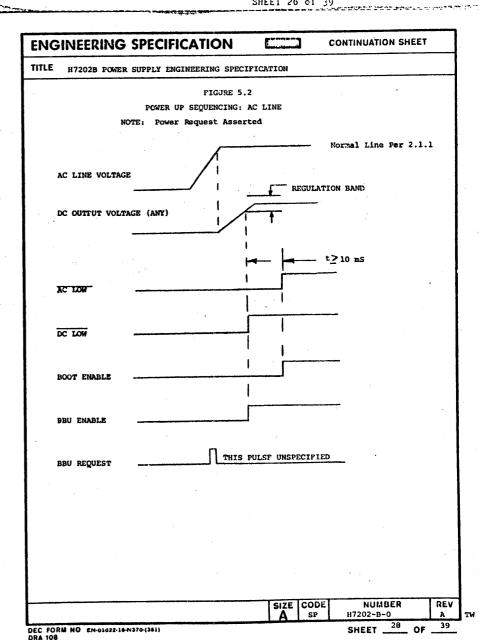
See Figure 5.2 for sequence of signals and events oon power-up and power-down.

FIGURE 5.1 LINE CLOCK SIGNAL



Pulse width approximately 1/2 line cycle: 50Hz line 10 ms. 60Hz line 8.3 ms.

t1, t2 < 200 ns



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Unasserted (high state): High impedance capable of blocking 15 VDC with a max. leakage of 1 Microamp.

100 microseconds.

Asserted (low state):

Electrical Characteristics:

AIR FAULT:

5.2.4

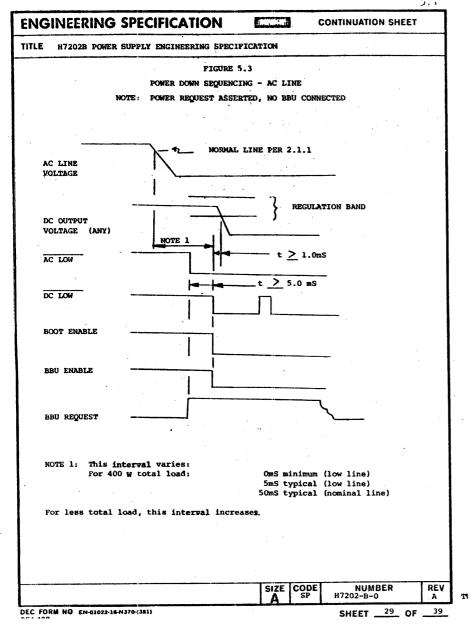
Note: Electrical Characteristics apply when "pull-up" and "fault" are connected together.

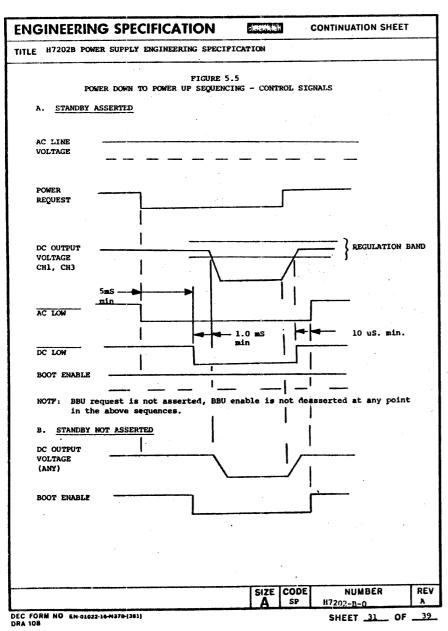
DIGITAL EQUIPMENT CORPORATION

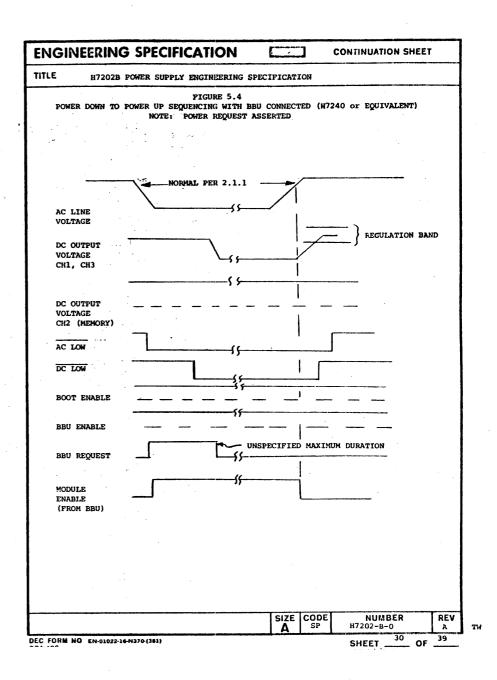
This signal is a shutdown input with internal latch intended for use with external environmental sensors. It consists of a pull-up line and fault signal which must be connected together externally to permit normal operation (see Figure 5). When the AIR FAULT line is pulled low to P.S. return, all DC power is removed after an AC low - DC Low sequence. An internal latch is also set, holding this condition until Power Request and Standby inputs are de-asserted ("Key OFF"). Under default conditions with both lines open, the Power Supply will not operate.

The minimum fault assertion time to guarantee a latch is

Low impedance to P.S. return capable of sinking 10 mA. with a maximum Voltage of 1 Volt.







5.4 Status Indicators

Three red light emitting diodes indicate the status of each of the three power channels. These are visible through the connection access cover and labeled. Each LED will be on when that channel is on and outputs are within normal range.

Labels are as follows:

Main +5V OK (Channel 1)
Memory Power OK (Channel 2)
Com. Power OK (Channel 3)

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CHAPTER 6 MECHANICAL AND PHYSICAL SPECIFICATIONS

Size

The overall dimensions are 5 \times 6.25 \times 21 inches nominal, conforming to the dimensions shown in Figure 6.1.

6.2 Weight

The power supply with housing has a maximum weight of 8.2 kilograms (181bs).

6.3 Mounting

Through threaded inserts comptaible with BA11-H and BA11-Z boxes .

Externally supplied forced air at 400 linear feet per minute (20 m/s) is required to properly cool this unit when operating at full load and max. temperature. Volume requirement is approximately 80 cubic feet per minute. A suitable air filter is required to prevent dirt accumulation inside the unit. (See 7.6)

Thermal Protection

The power supply is self-protecting against the loss of adequate cooling air or excessive temperature by internal temperature switches which shut down the power supply. This sets an internal latch which is externally reset by de-asserting both power request and standby inputs (console key to OFF).

6.6 Accessibility

6.6.1 Connections:

All power and signal connections are available at the rear of the unit. A protective clear cover must be removed to access many of the power and signal connectors.

6.6.2 Service:

To access the working internal modules, the input power connector P2 must be disconnected to allow the top cover to be removed. This disconnects all HV power from the input harness. Channel 2 and 3 power modules may be removed at this point.

To remove the H7200 power module, the AC input panel must be removed, as well as the mounting screws on the bottom of the unit as well as the high current cables.

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6.7 Identification Stickers

Special markings or compliance stickers are placed on the outside of the housing near the circuit breaker access, adjacent to the AC inlet connector and on the top cover.

Input/Output Connectors

6.8.1 Line Interfaces

Interfaces at AC Line potential (AC input line, battery back-up power) are through connectors in the chassis at the rear of the unit. AC line input is directly into the line filter.

6.8.2 Main Output

> 5V, 60A output is through screw and insert connections on the rear side corners. Interface to the load is then through flex-print (wire could also be used).

Other Interfaces 6.8.3

> All other interfaces are from connectors on the distribution board under the rear protective sover. Interfaces included are:

- Backplane (by flexprint) includes DC power other than 5V/60A, and processor signals. (J2)
- Fan: Power for DC fans and signals to and from air flow sensor. $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) ^{2}$ (J3)
- Fan: Power for additional DC fan. (J7)
- (J4) Battery Back-up: Signals to Battery Back-up
- (J6) DEC Power Bus.
- (J1) Console - Control signals.

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6.8.4 DEC Power Bus

These signals are carried out from the distribution board (J6) to the chassis where the standard 3 pin connector is accessible.

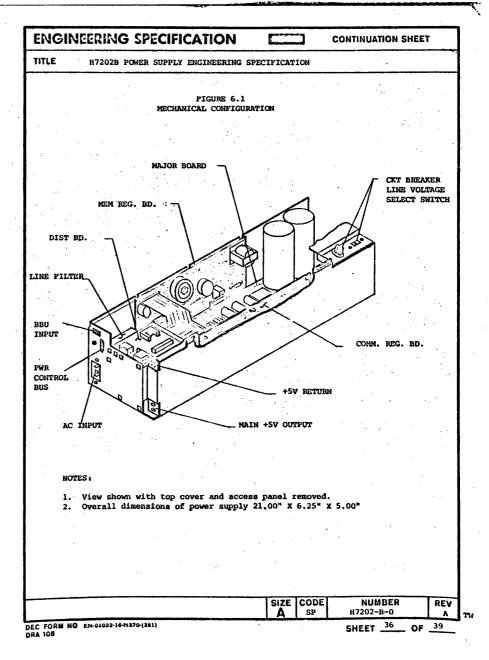
PACKAGING

Shipment of this unit requires that proper containers be used:

bulk shipment single unit shipment

3700635-00 3700635-01

(See A-SP-3700635-0-0)



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CHAPTER 7 ENVIRONMENTAL SPECIFICATIONS

General:

In compliance with DEC STD 102, rev C class C.

7.1 Temperature

Operating Ambient Temperature Range 7.1.1

5 C to 55 C (intended for use in equipment rated DEC-STD 102, Class C).

7.1.2 Storage Temperature Range

-40 C to + 70 C.

7.2 Humidity

Per DEC Standard 102, Class C, Paragraph 3.0.

7.3 **Altitude**

7.3.1 Operating Limit

22.2 in lig. (8,000 ft).

7.3.2 Storage Limit

8.9 in. Hg. (30,000 ft.).

<u>Vibration</u>

Per DEC Standard 102, Class C, Paragraph 6.0.

Mechanical Shook

Per DEC Standard 102, Pargraph 5.0.

Dirt Protection

An external filter for cooling air is required to prevent interanl dirt accumulation. This is necessary to preserve the integrity of the insulation systems.

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CHAPTER 8 RELIABILITY

8.1 Life Expectancy

The design goal for life expectancy is 10 years.

8.2 Mean Time Between Failure

The deisgn MTBF is greater than 27,000 hours based on a parts count calculation and data from MIL-HBK-217B and DEC STD 139,

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CHAPTER 9

The power supply as specified herein shall be UL recognized, CSA certified and comply with DEC STD 119 REV C.

9.1 Electrical

The power supply and its application (including battery back-up) shall be listed per UL-478-Electronic Data Processing Units and Systems and meet UL 1012 - Power Supplies.

The power supply and its application (including battery back-up) shall meet the following safety codes:

CSA C22.2

No. 154 Canadian Electrical Code, Part II, Safety Standards for Electrical Equipment.

VDE 0804

Regulations for Telecommunication Apparatus including Information Processing Equipment.

IEC 435

Safety of Data Processing Equipment.

9.2 Regulatory Bodies

See DEC Standards 60 and 119.

9.3 Isolation

See Section 2.1.7 of this specification. Refer also to DEC Standards $60\,$ and 119.

9.4 Grounding

The ground wire (green/yellow stripe) is connected to the power supply frame, housing and sheilds. The 5V return lead is internally connected to the chasses and ground wire.

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CKAGING	INSTRUCTION		REV: DATE:
E PKG POWER	SUPPLY H7202/H72	00/H7211/H7213	
	LEGEN	0	
VARIATION	USED ON	PACKAGE TYPE	REMARKS
3700635-0	1 H7202	CUSTOMER	
3700635-0	2 H7202	INTERPLANT	BULK
3700635-0	3 H7200	CUSTOMER	
3700635-0	4 H7200	INTERPLANT	BULK
3700635-0	5 H7211/H7213	CUSTOMER	1.
3700635-0	6 H7211/H7213	INTERPLANT	BULK
R	EFER TO OFF-SHEET	PARTS LIST K-PU	
STEP	PROCEDURE	FIGURE 1	
H	7202-B POWER SUP APE (9905729-00).	PLY AND TAPE I	06851-00) AROUND THE T WITH CARTON SEALING
	NSTALL A MOLDED F HE FIVE PANEL FOL		0-00) ONTO EACH END OF
(ON SEALING TAPE	(9906849-00) USING ONE ALONG THE LENGTH AND
	POSITION THE PRE- TULL OVERLAP CARTO		POWER SUPPLY INTO THE
5. C	LOSE AND SEAL TH	HE FULL OVERLAP	CARTON USING ONE (1)

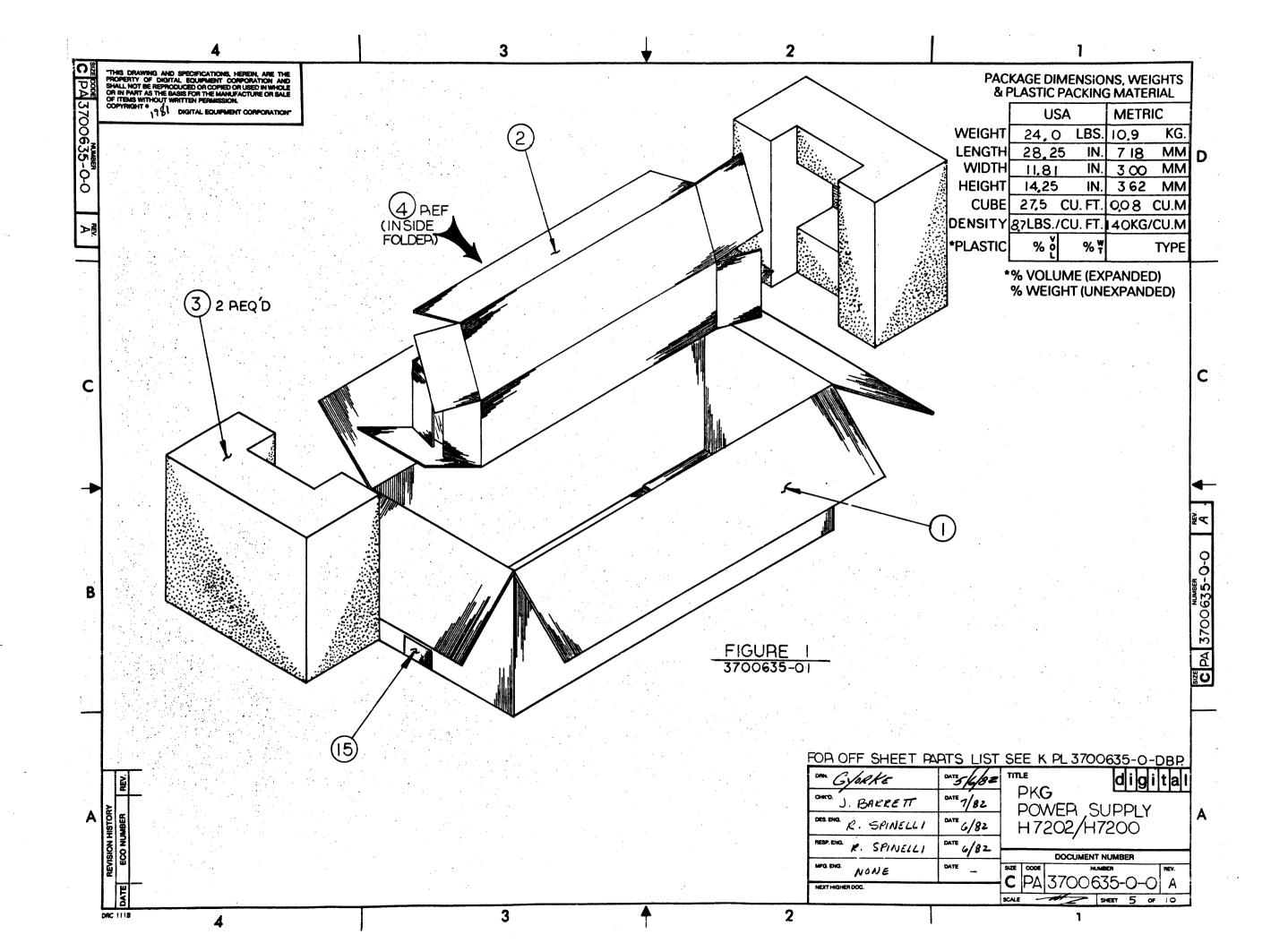
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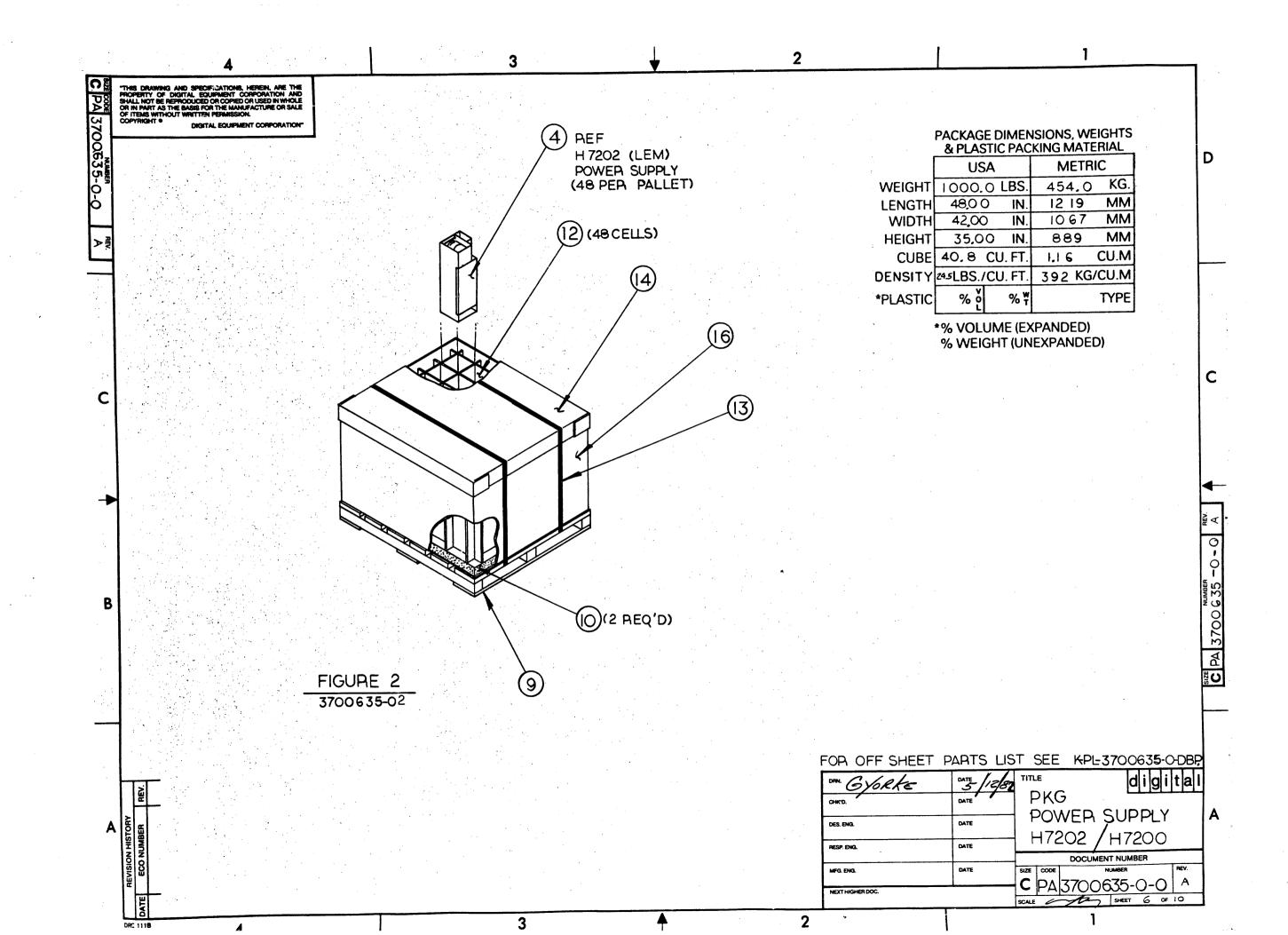
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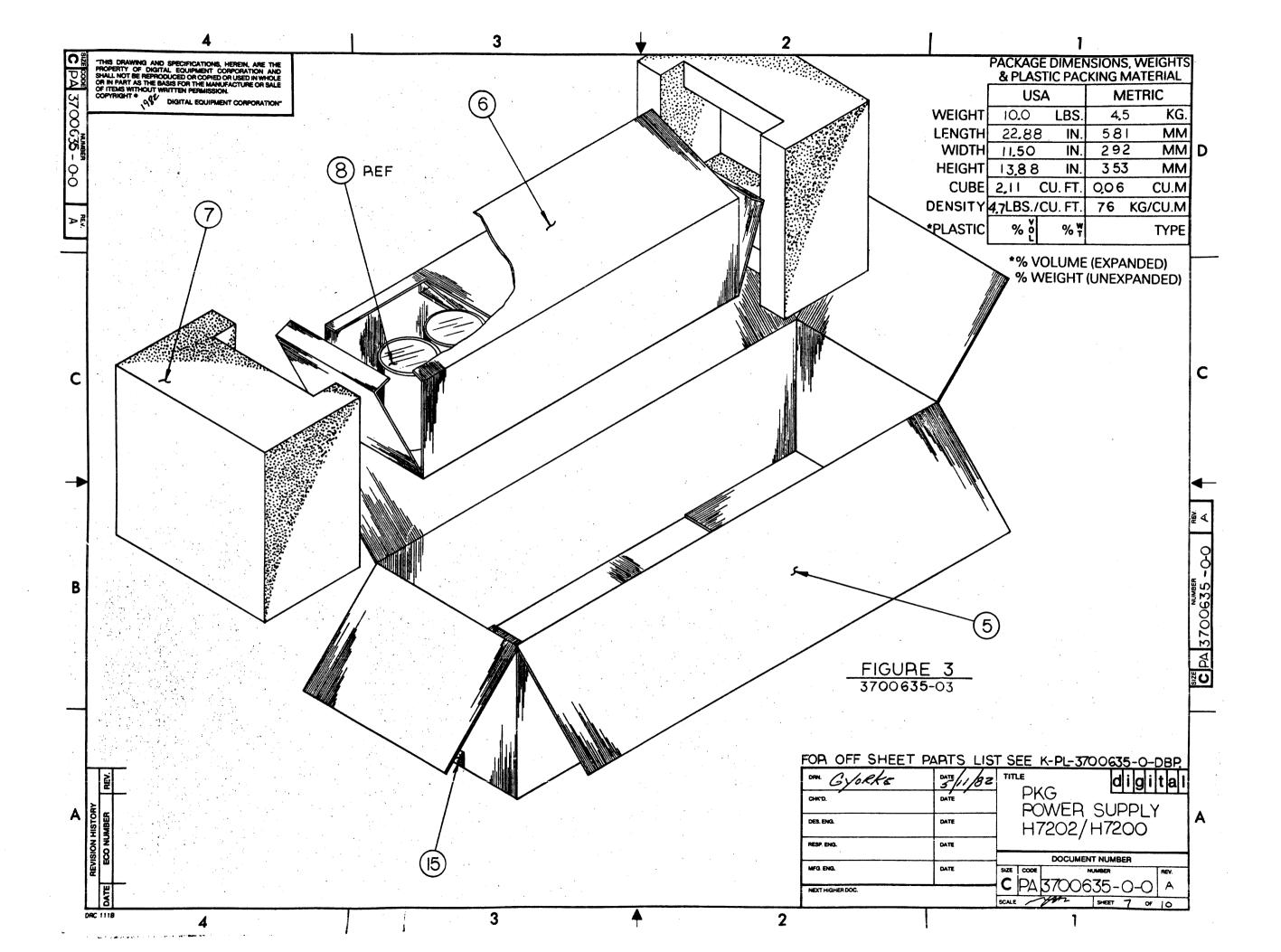
CKAGI	NG INSTRUCTION	CONTINUATION SHEET
LE 3 POW	ER SUPPLY H7202/H7200/H7211/H7213	
	ER 30FFL1 11/202/11/200/11/211/11/215	
	PACKAGING INSTRUCTIONS 37	000635-04
STEP	PROCEDURE FIGURE 4	
1.	WRAP THE DIE CUT CARTON (99068 POWER SUPPLY AND TAPE WITH (9905729-00).	
2.	SQUARE AND SET UP THE HALF SLOTUSING ONE (1) STRIP OF CARTON CENTER AND EXTENDING IT THREE 93 POSITION IT ONTO THE GET (9906199-00).	SEALING TAPE DOWN THE
3.	FIT THE GLUED TUBE (9906856-04) CARTON.	INTO THE HALF SLOTTED
4.	PLACE TWO (2) MOLDED FOAM PADS HALF SLOTTED CARTON.	5 (9990015-00) INTO THE
5.	ARRANGE EIGHTY-EIGHT (E Supplies, pre-wrapped per step (Configuration.	38) H7200 POWER ONE, PER PALLET PATTERN
6.	FIT THE TELESCOPE CAP (9906856-0 CARTON.	2) ONTO THE HALF SLOTTED
7.	STRAP THE TELESCOPE CARTON ASSEM TWO (2) POLYESTER STRAPS (990573	
	PACKAGING INSTRUCTIONS 3	700635-05
STEP	PROCEDURE FIGURE 5	
1.	OPEN THE ALREADY SET-UP DIE CUT FOAM (9906858-00).	CARTON WITH CONVOLUTED
2.	PLACE EITHER THE H7211 OR H7213 SIDE DOWN) INTO THE DIE CUT CART	
3.	CLOSE THE SELF-LOCKING DIE CUT	CARTON WITH ALL FLAPS
		DE NUMBER REV
		PA 3700635-0-0 A

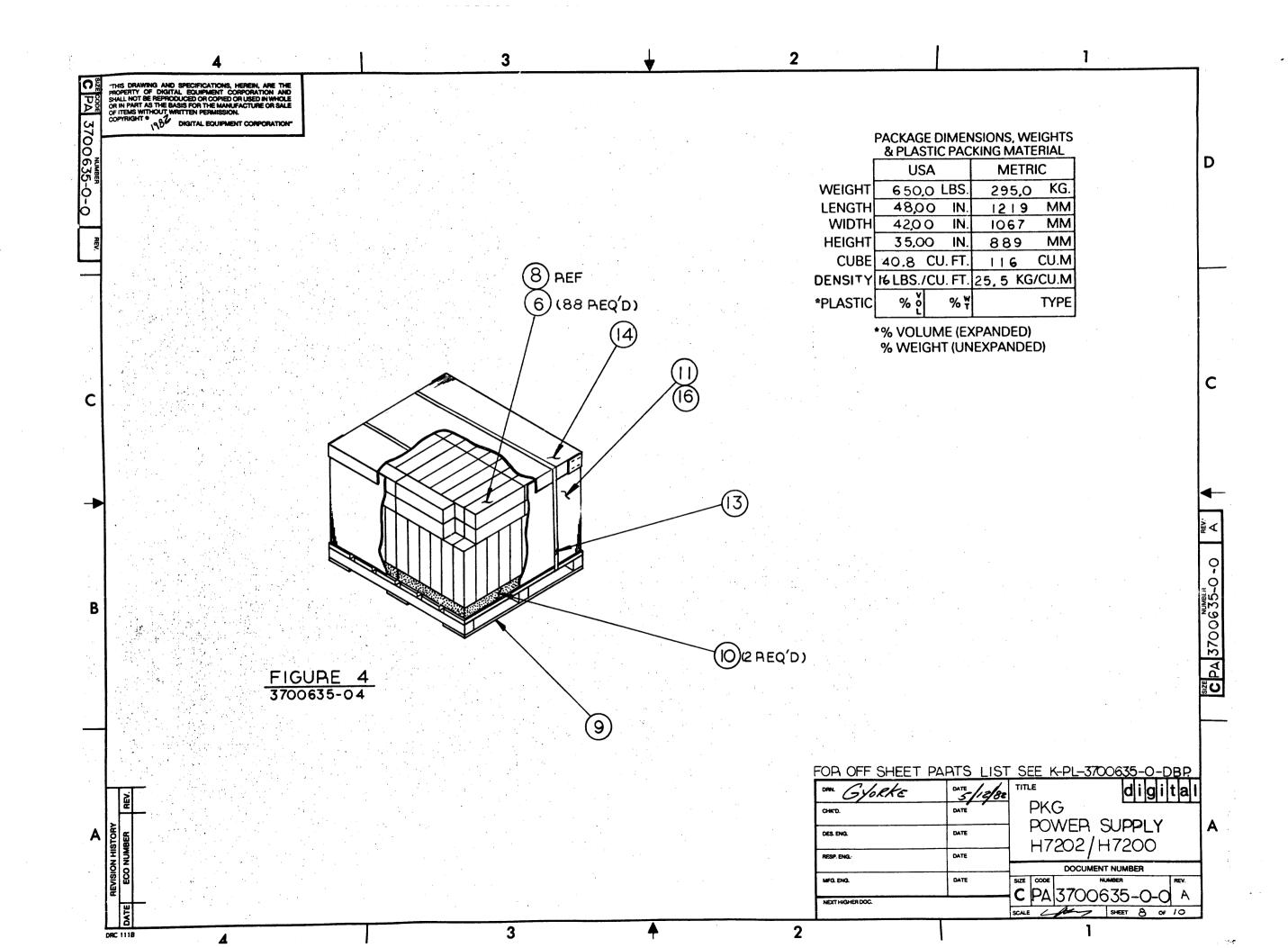
PAC	KAGING	INSTRUCTION	CONTINUATION SHEET
TITLE			
PKG	POWER S	SUPPLY H7202/H7200/H7211/H7213	
		PACKAGING INSTRUCTIONS	3700635-02
-	STEP	PROCEDURE TIGURE 2	
v	1.	SQUARE AND SET UP THE HALF SLOT USING ONE (1) STRIP OF CARTON CENTER EXTENDING THREE (3) INC POSITION IT ONTO THE GE (9906199-00).	N SEALING TAPE DOWN THE
	2.	FIT THE GLUED TUBE (9906856-04 CARTON.) INTO THE HALF SLOTTED
	3.	AFTER SETTING TWO (2) MOLDED FO. THE HALF SLOTTED CARTON, ARR NESTED DIVIDER (9906856-03) INTO	ANGE THE ASSEMBLED AND
	4.	INSTALL THE H7202- POWER SUDIVIDER CELLS (48 TOTAL), MAKING IS ON THE TOP.	JPPLY INTO EACH OF THE G SURE THAT THE CAPACITOR
*.	5.	PLACE THE TELESCOPE CAP (990 SLOTTED CARTON.	6856-02) ONTO THE HALF
	6.	STRAP THE TELESCOPE CARTON ASSE TWO (2) POLYESTER STRAPS (99057	
		PACKAGING INSTRUCTIONS	3700635-03
	STEP :	PROCEDURE FIGURE 3	
	1.	WRAP THE DIE CUT CARTON (9906) POWER SUPPLY AND TAPE IT WI' (9905729-00).	
	2.	INSTALL A MODLED FOAM PAD (9990 THE DIE CUT CARTON.	0012-00) ONTO EACH END OF
	3.	SET UP THE FULL OVERLAP CARTON (1) STRIP OF CARTON SEALING TATE ONE (1) STRIP ALONG EACH SIDE.	
	4.	POSITION THE PRE-PACKED H7200 POVERLAP CARTON.	OWER SUPPLY INTO THE FULL
	5.	CLOSE AND SEAL THE FULL OVERL STRIP OF CARTON SEALING TAPE A (1) STRIP ALONG EACH SIDE.	ALONG THE LENGTH AND ONE
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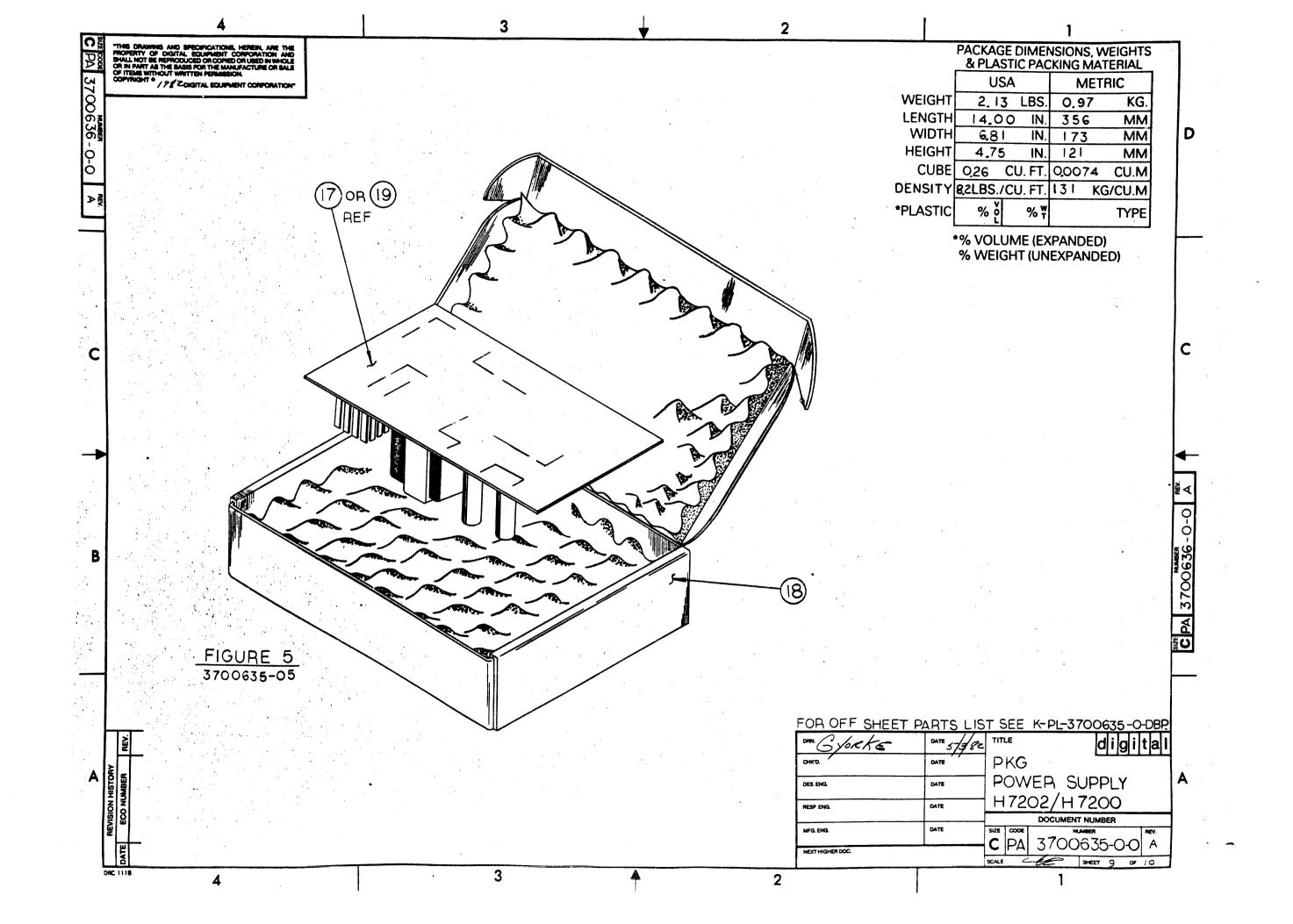
(9905734-00), STRAP THE POWER SUPPLIES TO THE PALLET	SHEET	KAGING INSTRUCTION CONTINUATION SH					PACK		
STEP PROCEDURE FIGURE 6 1. ON A GENERAL PURPOSE PALLET (9906199-00) PLACE TWE ONE (21) 3 X 7 PRE-PACKED H7211 OR H7213 POWER SUPP PER PALLET CONFIGURATION. 2. CONTINUE STACKING UNTIL THERE ARE EIGHT (8) TIERS HI 3. USING ANGLEBOARDS (9906185-14) POLYESTER STRAP (9905734-00), STRAP THE POWER SUPPLIES TO THE PALLET			3	l/H721	H7211	/H7200/	PPLY H7202/	POWER S	
STEP PROCEDURE FIGURE 6 1. ON A GENERAL PURPOSE PALLET (9906199-00) PLACE TWE ONE (21) 3 X 7 PRE-PACKED H7211 OR H7213 POWER SUPP PER PALLET CONFIGURATION. 2. CONTINUE STACKING UNTIL THERE ARE EIGHT (8) TIERS HI 3. USING ANGLEBOARDS (9906185-14) POLYESTER STRAP (9905734-00), STRAP THE POWER SUPPLIES TO THE PALLET		67F 06					24644		
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(9905734-00), STRAP THE POWER SUPPLIES TO THE PALLET	HIGH.	IGHT (8) TIERS	ARE E	THERE	NTIL	KING U	NTINUE STAC	2. CC	2
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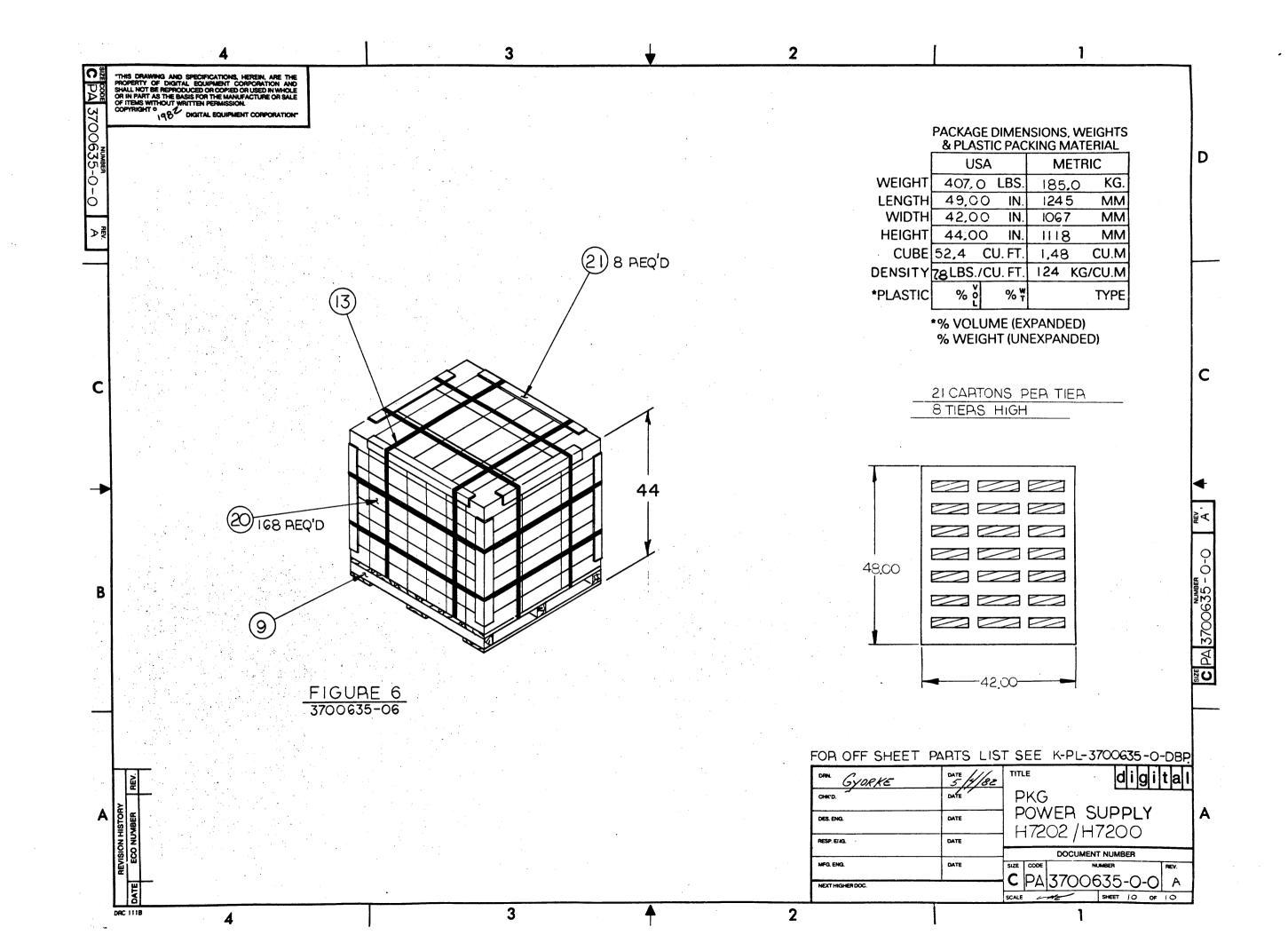


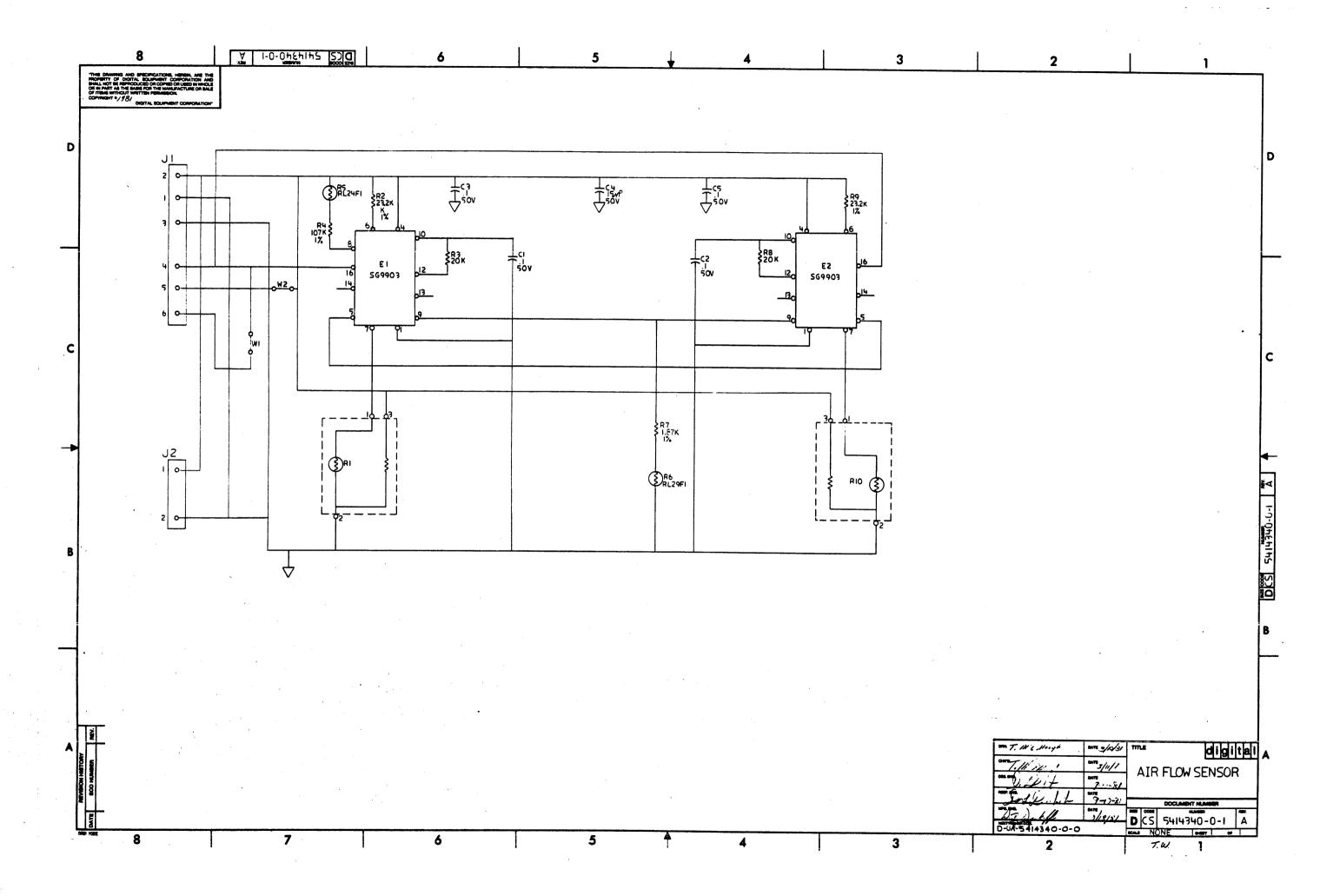


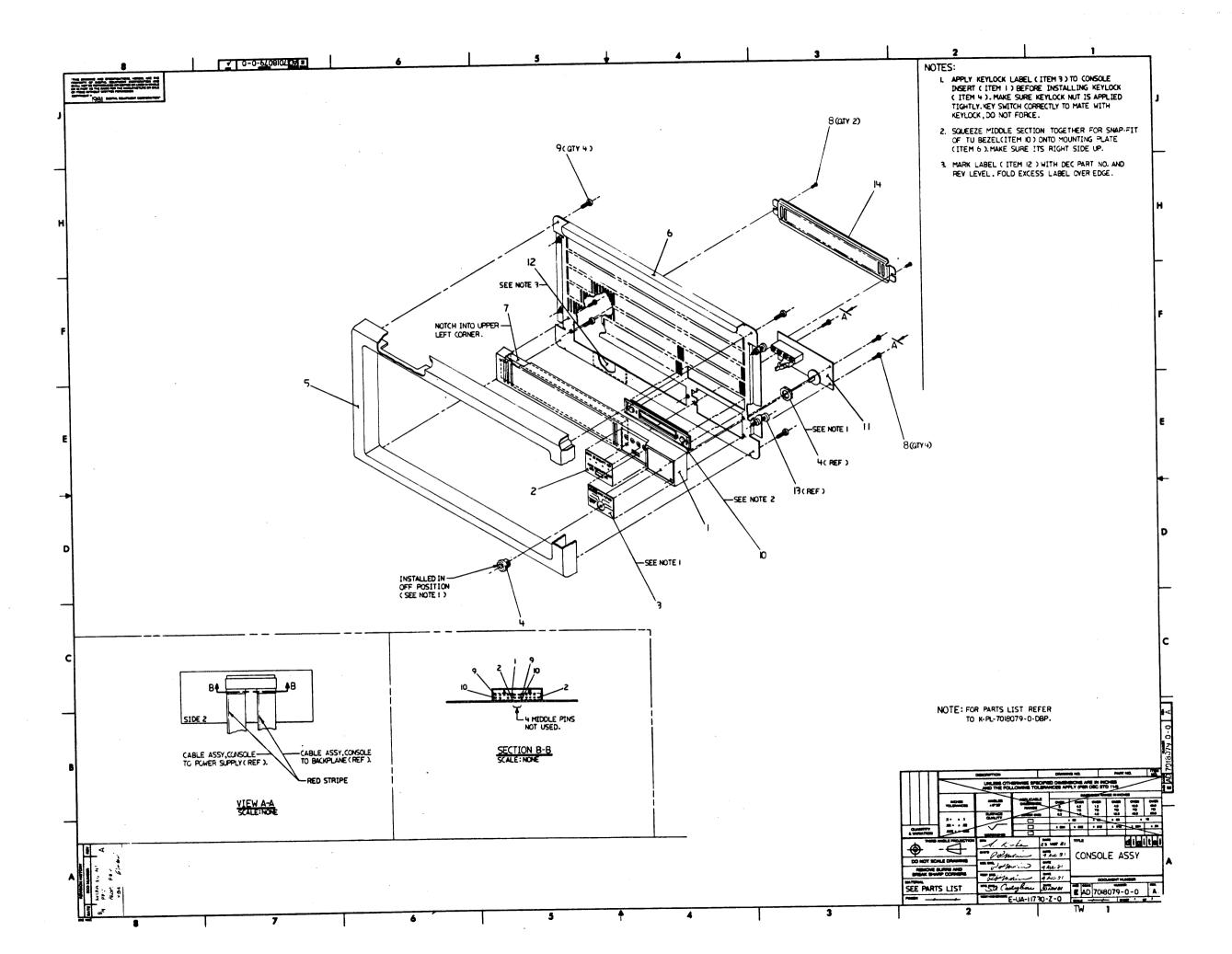








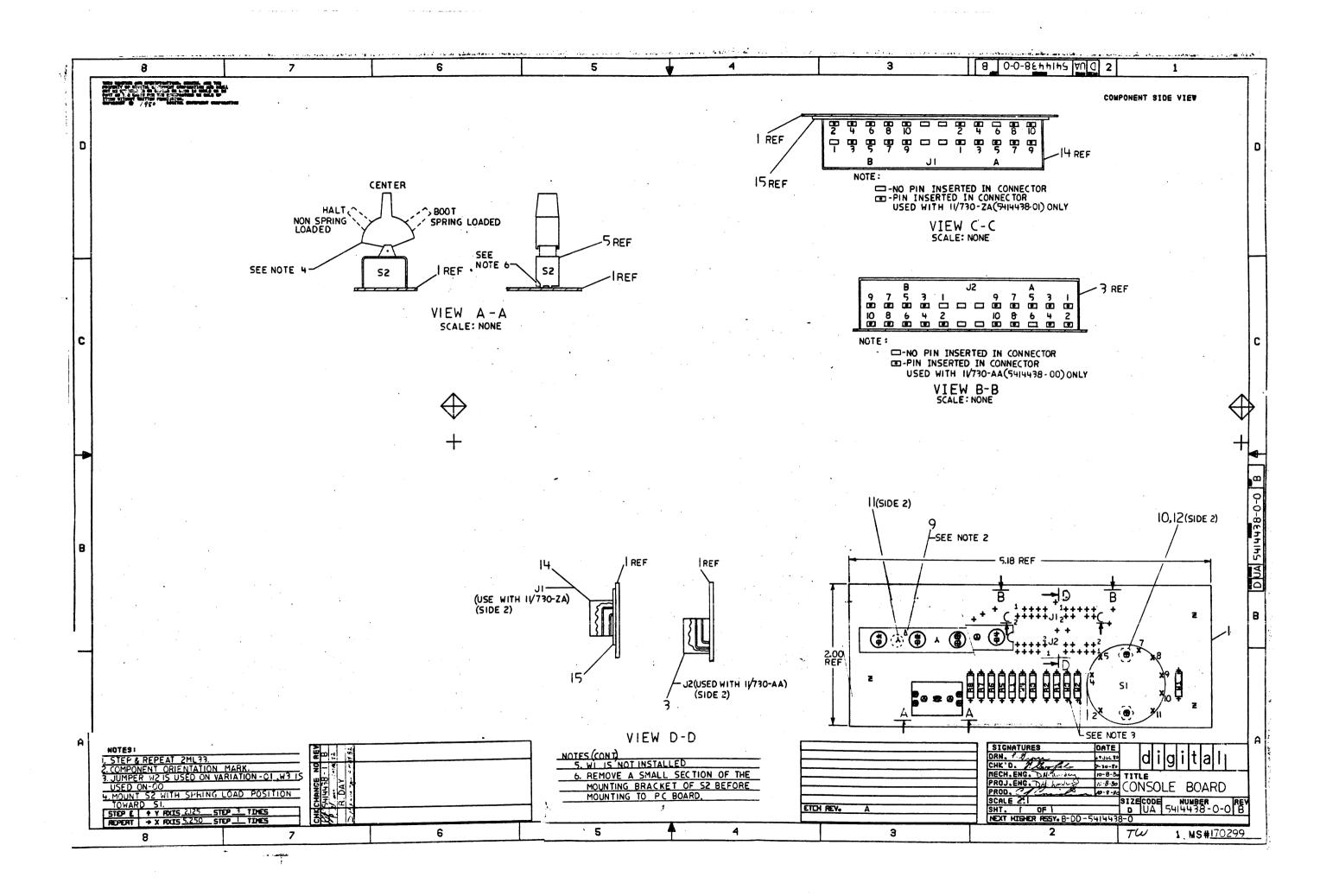




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1 E-IA-7424269-0-0 0 A-PS-3617322-0-0 0 A-PS-3617902-0-0 0 A-PS-1216178-0-0 0 E-PS-1217794-0-0 0 E-IA-7424832-0-0 0 E-IA-7424832-0-0 0 E-IA-7018168-0-0 10 IO C-IA-7018168-0-0 11 II D-AD-5414438-0-0 12 II II D-MD-7426334-0-0	7424269-00 3617322-00 3617902-01 1216178-01 1217994-00 7424832-00 1217665-01 9010119-00 7018168-00 5414438-01 9009255-01 9006075-03 7426334-01	CONSOLE INSERT LABEL, LEGEND STRIP VAX 11/730 LE LABEL, LEGEND STRIP VAX 11/730 6P LOCK, PLASTIC 6POS ASSY BEZEL, PLASTIC 11-44 PLATE, MTG 10-1/2 FILTER, FOAM 11.5X1.85X1/2 5PPI SCREW, SEMS, PHILLIPS PAN HD. 6- SCREW, PHILLIPS TRUSS HD. 10-32 TUSB DUAL DRIVE BEZEL ASSY CONSOLE MODULE LABEL, POWER SUPPLY, 2-7/8" LG X SCREW, TRUS, PHIL, 10-32X 3/4 SHIELD	REF.	

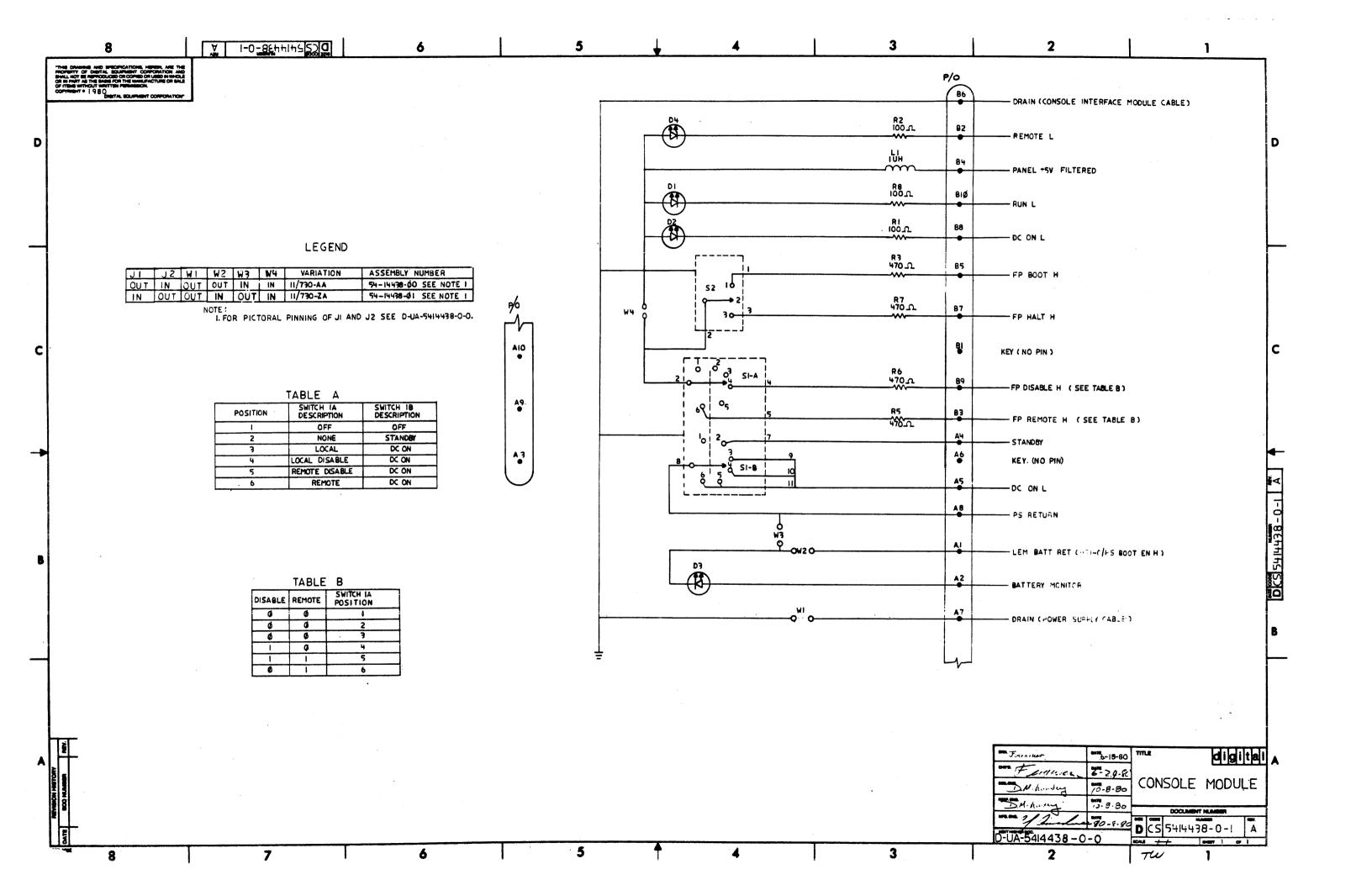
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	i			[6]	! ++++++++	-+++		+++++	30-JUL-81	++++	++++	DOCUMENT NUMBER	-+++++
				(E)	RESP.ENG.:	•+++	+++++++++	+++++	30-JUL-81 -+++++++ 30-JUL-81	SIZE	CODE	NUMBER	REV
+	++	+++++++++	++++	[F]	ASSEMBLY N E-AD-70180	UMBE 179-0	R: -0	TOP DO	CUMENT NUME 1730-Z-0		PL !++++	7018079-0-0 FILE NAME: Z1827A.PLS	A EDIT #
		"THIS DRAWING A OR COPIED OR U	ND SF SED I	PECIFICATIONS HEREIN, ARE IN WHOLE OR IN PART AS TH COPYRIGHT	THE PROPER E BASIS FOR (C) 1981.	TY C	F DIGITAL EQL MANUFACTURE TAL EQUIPMENT	IPMENT OR SAL CORPO	CORPORATION "	HTIW	D SHAL DUT WE	L NOT BE REPRODUC	ED
: -		++++++++++++	++++	-++++++++++++++++++++	+++++++	++++	++++++++++	+++++	+++++++++	-+++		-++++++++++++	++++++

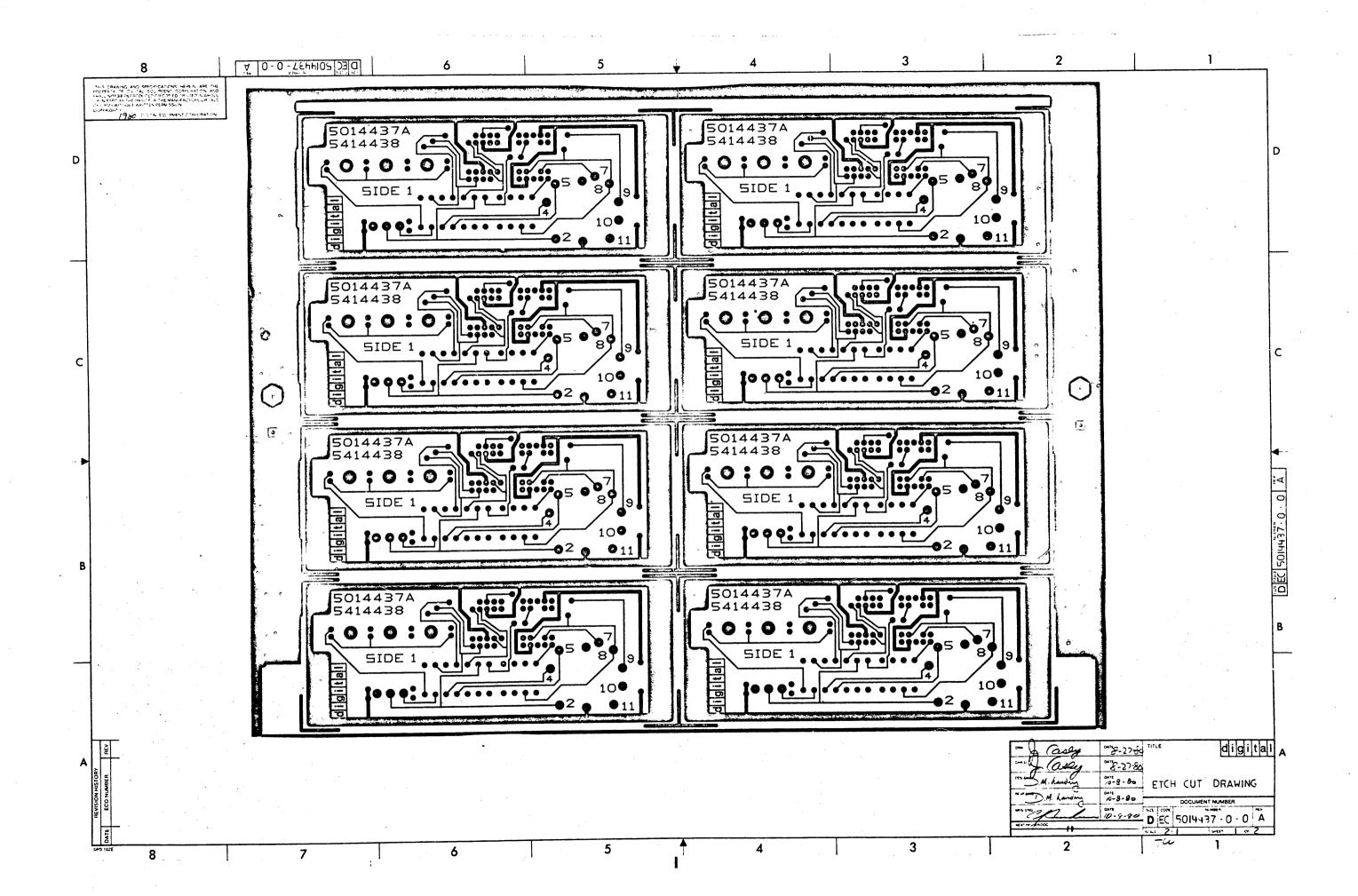
B DD 2HHH38-0 DRAWING NO. PART NO. **DESCRIPTION REVISIONS** A B A B A B A A A A MODULE REVISION B-DD-5414438-0 CONSOLE MODULE CONSOLE MODULE D-UA-5414438-0-0 3 K-PL-5414438-0-DBP CONSOLE MODULE CONSOLE MODULE D-CS-5414438-0-1 D-MD-5014437-0-0 3 DRILL & ETCH DRAWING ΑА ETCHED BOARD 5014437 AA K-PC-5414438-0-DBG P.C. DESIGN DATA BASE D-EC-5014437-0-0 ETCH CUT DRAWING AA NOTES: $|\infty|$ REVISIONS CHG NO. 3-82TW001 DATE 29 JUL 80 TITLE USED ON OPTION/MODEL 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CONSOLE MODULE NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER 5414438-0 ENG M. A. Adea REV. ITEMS WITHOUT WRITTEN PERMISSION. В COPYRIGHT® /980 DIGITAL EQUIPMENT CORPORATION SHEET | OF |

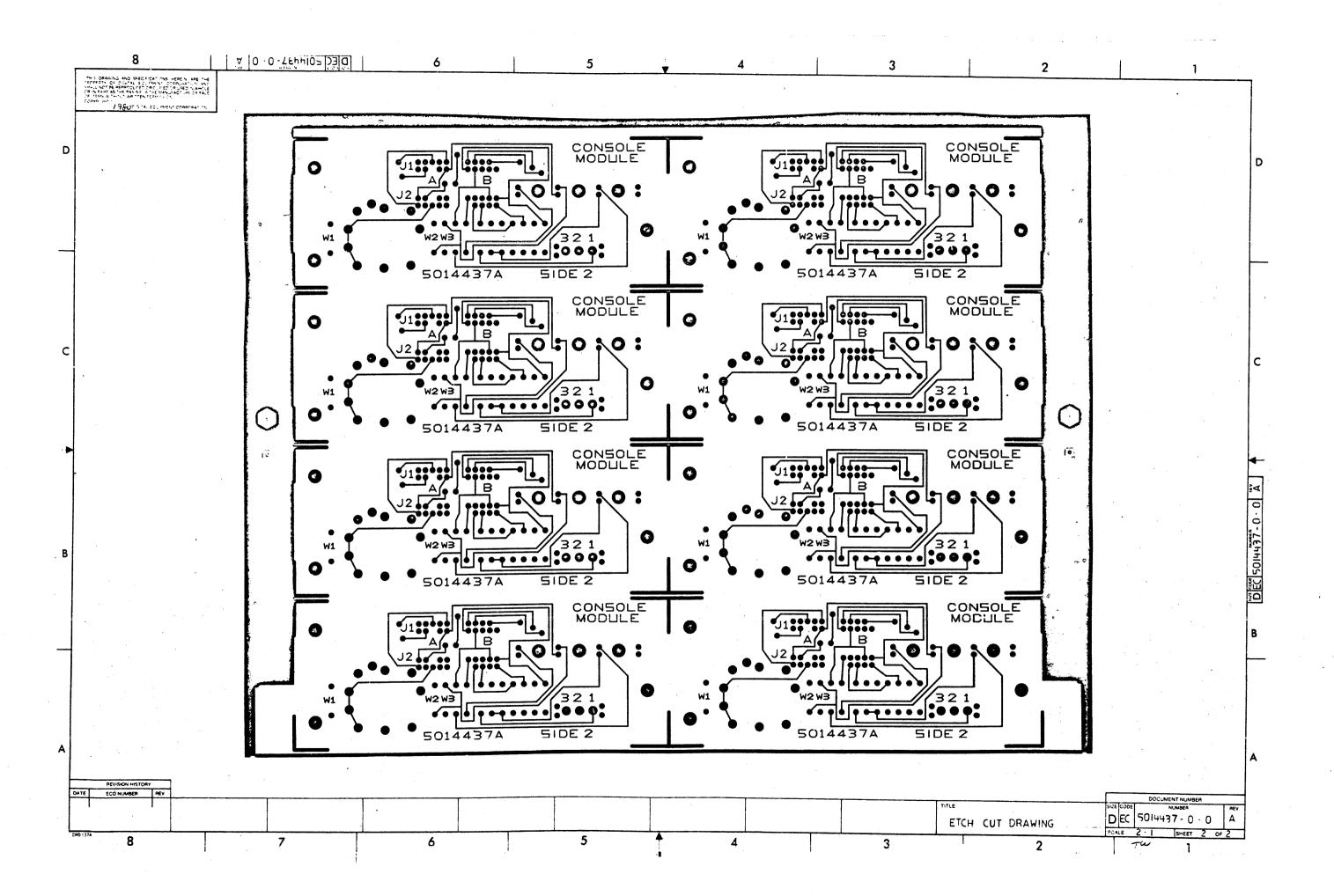


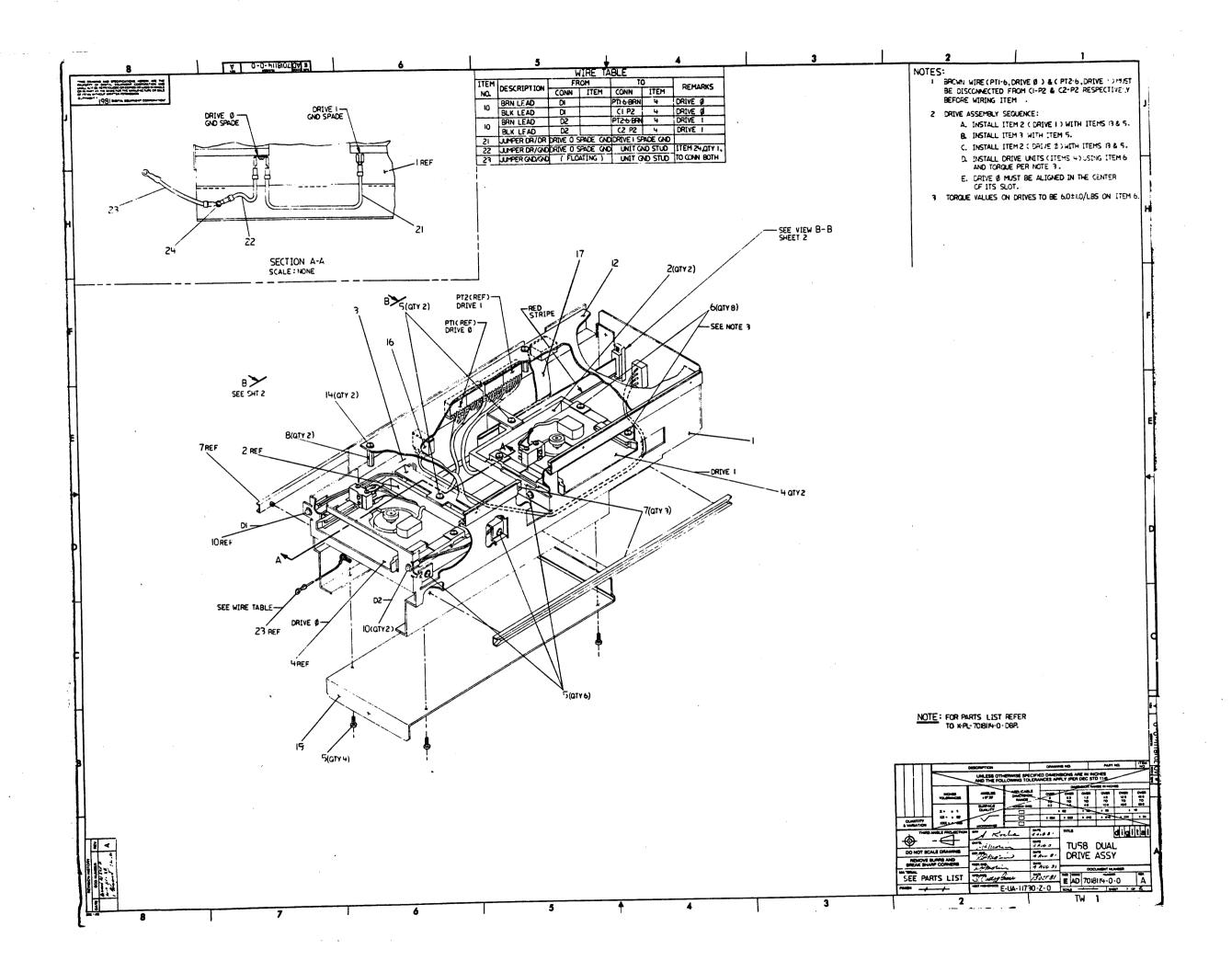
		· ·					
UTOM	ATED B	Y PRTLST, 3P(44)		PARTS LIST	r: m		SHEET A1 OF A
INE :	ITEM I	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	OTY	PER VARIATION	REFERENCE DESIGNATOR
1	1 1	D-MD-5014437-0-0	5014437-00	CONSOLE MODULE	1		
2	2		1110864-00	LED 2MCD010MA	4	4	D1-D4
3	3		1213506-06	HEADER 24POS RT ANGLE	1		J2
4	4		1218038-00	SW.ROT 1P 2.0A 6POS 1SECTION	1	•	\$1
5	5		1216179-00	SW, LEVER 1P ON/OFF/ON	1	1	S2
6	6		1300229-00	100.0 .25 W 5.0 % CC	3	ล์	R1,R2,R9
7	7		1300316-00	470.0 .25 W 5.0 % CC	4	4	R3,R5=R7
8	8	•	1601562-00	1.0 UH 10% 475MA #DD1.00	1	1	L1
9	9		7413127-00	LED HOLDER REWORK	1	•	u +
10	10		9006555-00	NUT, HEX , 2-56X3/16AF X 1/	ĵ	2	
11	11		9009236-01	SCREW, TAPPING, TYPE F, PAN , PHIL,	ั้ง	ร้	
12	12		9009321-00	LOCK TITE, SCREW LOCK, 10CC PER	A/R	A/R	•
13	13		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	•	W3,W4
•	•		CONT		-	2	W2, W4
14	14		1213506=08	HEADER 24POS RT ANGLE	-	4	J1

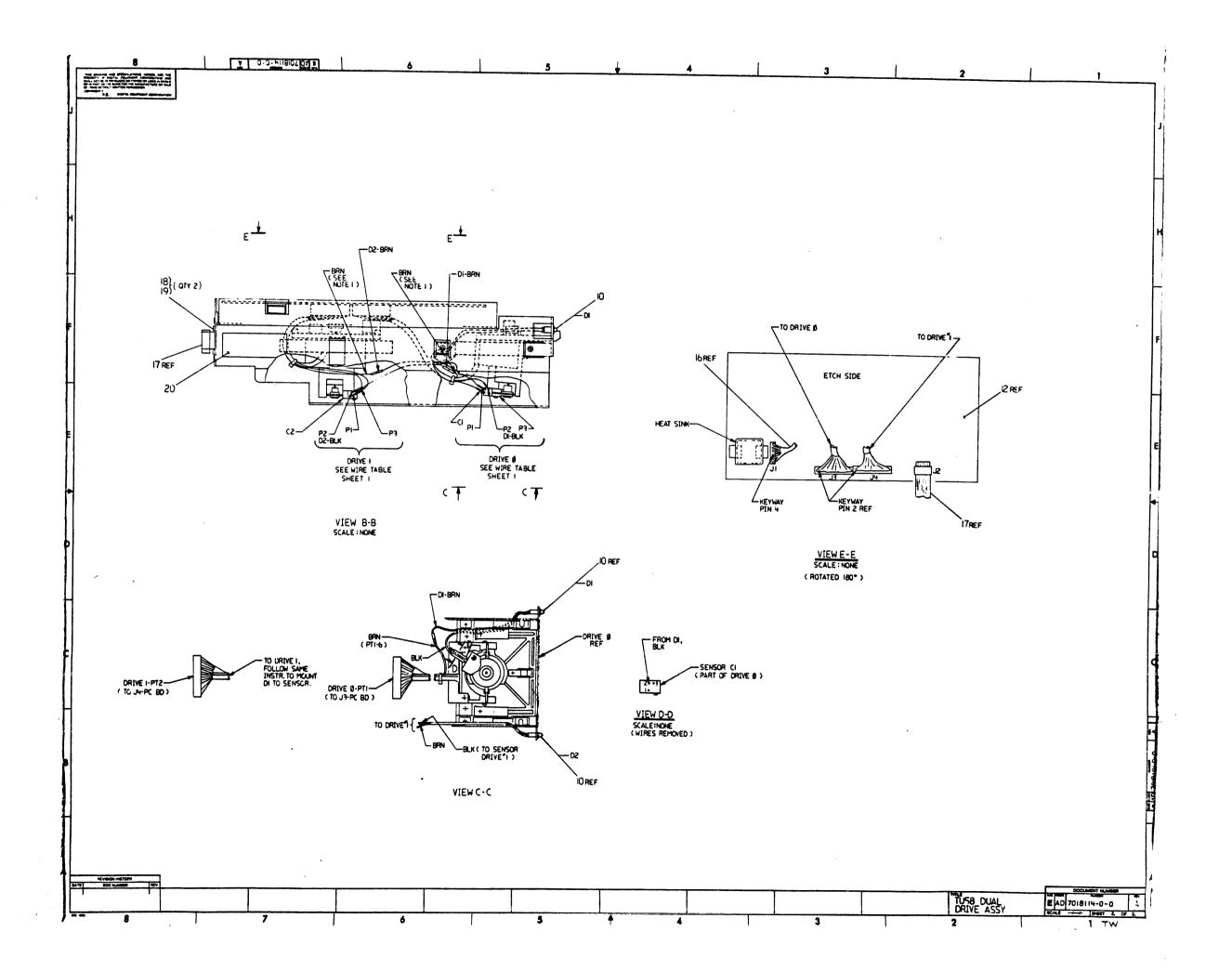
	REVISION HISTOR	Y	IBASIC PART NO. 5414438	· •	ب ب ب به داخل کمین میک کا							7
ÉNGI	ECO NUMBER	IREV	ISECTION A OF A	IDRN:	P.GROSSE	DATE: 0	9-JUL-80	 	i D	IIGIII	I A I L	! !
	INITIAL	- ! ! A !	SECTION VARIATION INDEX	ICHK D:	F.GAROFALO	DATE: 0	9-JUL-80	-		PARTS LIST CONSOLE MODULE		!
		!!!	[B] [C] [D]	IDES.ENG:	D.LANDRY	DATE: 0	9-101-80	!	,,30	CONSOLS MODDLE		<u> </u>
		!	[E] [F]	RESP.ENG.:	D.LANDRY	IDATE: 1	8-SEP-80	!		DOCUMENT NUMBE		; . ; !
		! !	I [H] I [J] I [K]	IMFG.ENG.:	J.CONSIDINE	DATE: 8	-OCT-80	ISIZE !	1	! NUMBER ! 5414438-0-DBP	I REV	1
	. ,	1 1		IASSEMBLY N ID-UA-54144			UMENT NUM	BER:	l	FILE NAME: 2 Z1273A.PLS	EDIT #	· ; ;





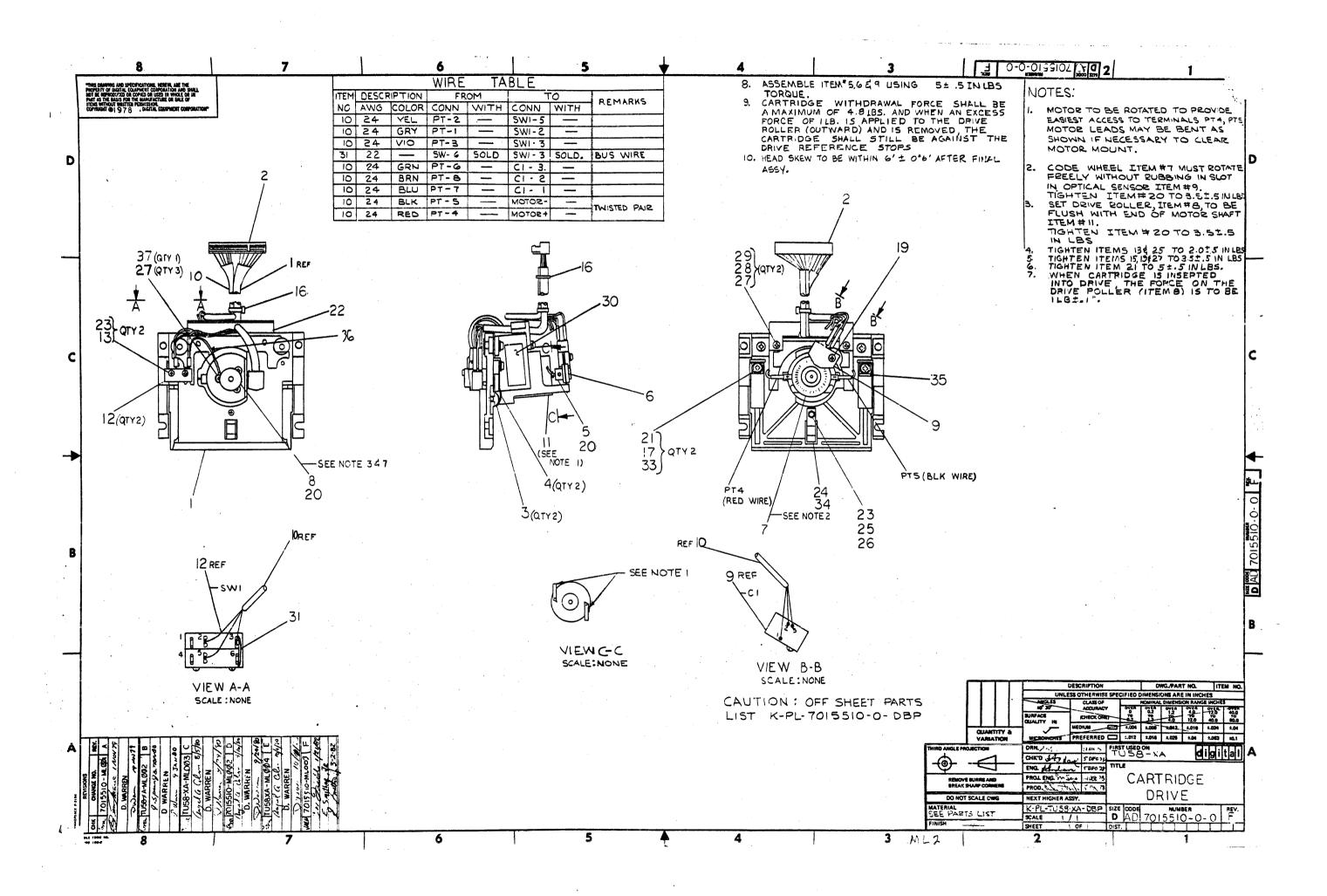






AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER PART NUMBER		JANTITY PER VARIATION 30	SHEET A1 OF A1
1 C-IA-7018164-0-0 7018164-00 7423933-00 7423933-00 7423933-00 7423933-00 7424846-00 7424846-00 7424846-00 7424846-00 7424846-00 7015510-00 9009701-00 9009701-00 9009984-02 9010107-00 9009284-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 1118799-00 7018666-18 12 12 E-UA-5413489-0-0 7424848-00 7016305-08 117 15 15 D-MD-7424848-0-0 70186305-08 117 15 16 D-IA-7018366-0-0 70186305-00 9009990-00 900990-00 9009990-00 9009990-00 9009990-00 9009990-00 9009900-00 9009900-00 9009900-00 9009900-00 90	TU ENCLOSURE RIVETED ASSY TUS8 PLATFORM BRACE CENTER TU CARTRIDGE DRIVE SCREW, PAN, PHILL SEMS 6-32X .312L SCREW, SEMS, PHILLIPS PAN HD. 6- GUIDE CARD 11"LG. STANDOFF HEX M/F 4-40 *** THIS ITEM IS NOT USED *** LED 15.0MCDJ20MA 3.0V *** THIS ITEM IS NOT USED *** TUS8 ELECTRONICS SERIAL *** THIS ITEM IS NOT USED *** SCREW, PAN, SLOT, SEMS 4-40X .250L PLATE, BOTTOM, TU TU BULKHEAD PWR CABLE CABLE, SERIAL TUS8 SCREW, PAN, PHIL 4-40K 1/2 SS NUT KEP LABEL, POWER'SUPPLY, 2-7/8" LG X JUMPER, DRIVE/GND JUMPER, GND/GND NUT, KEP 6-32X 1/4 AF	-A-MONTON I M I NOW MINING	

1	REVISION HISTORY	++++	BASIC PAR	++++++	018114	DRN:	A.	ROCHA	-++++	DATE:	23-JU	++++	++++	+ +++	I G]] +++ +++	A L
ENG +++	+++++++++++++	++++	SECTION A	++++++	ON INDEX	CHK'D:	R.	MORIN		DATE:	23-JU		TITLE	•	PÄRTS L DRIVE	LIST	
			[A] 00 [B]			DES.EN	IG.: R.	MORIN		DATE:	23 - JU	L-81				++ +++++	+++++
			[0]			RESP.E	: :NG.: R.	MORIN	-++++	DATE:	23-JU				++++++	T NUMBER	+++++ ! REV
			[D]			+++++	*+++++	CASTIG	_IONE	į	23-JU		K 217E	. !	7018114	-0-DBP	A
			[E]			L		-+++++++ 3FR:		TOP D	+++++ OCUMEN 11730-	IT NUM	BER:	++++	FILE NA Z1352A.		EDIT 20
+++	THIS DRAWING	++++ NN S	+++++++ PECIFICATI	++++++		1+++++	++++++	-++++++	-++++	++++	+++++	++++	+++++ ОМ АМО ОНТТЫ	SHAL	+++++++ L NOT BE ITTEN PE	REPRODUC RMISSION.	ED
	OR COPIED OR	JSED	IN WHOLE O	R IN PE	ART AS TH COPYRIGHT	E BASIS (C) 19	81. DI	TE MANUEL	JIPMEN	TCORP	ORATIO)Ň ' II ' ' '	++++	-++++		RMISSION.	+++++



OMATED BY PRILST.3P(44)	CACT NUMBER 1	FARTS LIST	QUANTITY PER VARIATI	SHEET AL On	
E ITEM DOCUMENT NUMBER	FART NUMBER [DESCRIPTION			
1 D-IA-7016558-0-0 23 C-MD-7420645-0-0 C-MD-7420651-0-0 C-MD-7420652-0-0 C-MD-7420652-0-0 B-MD-7420649-0-0 D-IA-7016017-0-0 11 12 13 14 15 15 15 15 15 17 18 19 20 21 22 25 27 28 29 30	1216144-00 (HEAD MOUNTING ASSY COVER, CONN FOR 12-15819 LOCK, ROLLER SPRING, BEVELED HUB, ENCODER CLAMP WHEEL, CODE	5- 1222		•
6 6 B-MD-7420652-0-0 7 7 C-MD-7420649-0-0 8 8 9 9	1216231-00 {	ROLLER HSSEMBLY, DRIVE PHOTO SWITCH W/LED	8 1		·
0 10 D-IA-7016017-0-0 1 11 2 12 3 13	1209782-00 9008025-01	CABLE, TAPE DRIVE MOTOR, 12VDC SERVO SW. MICRO 1P .1A 2125V, AG "CROS SCREW, PAN, PHIL 2-56X 5/8 SS	2		
1 14 5 15 6 16 7 17	9008301-01 9007031-00 9007801-00	*** THIS ITEM IS NOT USED *** SCREW.PAN.PHIL 4-40X 1/4 SS TIE.CABLE BUNDL.DIA 0- 3/4"=10 WASHER, LOCK, S.S. #6	3 2 2		
8	9006013-01 9006278-10 9006021-01	*** THIS ITEM IS NOT USED *** SCREW,PAN,PHIL 4-40K 1/2 SS SCREW,SET,SKT, 4-40X 1/8 SCREW,PAN,PHIL 6-32X 5/16 SS	2		
2 22 C-MD-7421491-0-0 3 23 4 24 C-MD-7423355-0-0 5 25	9006001-02	CLAMP, CABLE WASHER, LOCK, INT, 1800D X .096ID SPRING STRAIGHT SUPPORT SCREW, FLAT, PHIL, 2-56X 1/4	I		
D 10 D-IA-7016017-0-0 1 11 2 12 3 13 4 14 5 15 6 16 7 17 8 18 B-MD-7422968-0-0 19 20 1 21 2 22 C-MD-7421491-0-0 12 23 24 24 C-MD-7423355-0-0 5 25 7 27 8 29 0 30	9006010-01 9006655-00 9006688-00	NUT HEX SCREW PAN PHIL 4-40X 5/16 SS WASHER, FLAT, .312 O.D. X .125 WASHER, LOCK, S.S. #4 LABEL, SERIAL TU58-XA	I 52 2		•
.++++++++++++++++++++++++++++++++++++++	ASIC PART NO: 7015510		-++++++++++++++++++++++++++++++++++++++		
++++++++++++++++++++	ECTION A OF A	++ DRN: D. WARREN D. HARREN	PATE: 24-APR-78		A ! L
TUS8XA-ML003 C SE 7015510-ML002 D	ECTION. VARIATION INDI	EX CHK'D: D.HEALY D	PATE: 5-DEC-78 CARTE	PARTS LIST IDGE DRIVE	
TUSBXA-MLOO4 E	[8]	DES.ENG.: M.LEIS	ATE: 5-DEC-78		
	[C] [D]		ATE: 5-DEC-78 +++++	DOCUMENT NUMBER DE! NUMBER !	REV
i !	[E]	MFG.ENG.: R.TAYLOK D	ATE: 5-DEC-78 K P	7015510-0-DBP	Ε
	(F1)	ASSEMBLY NUMBER:	OP DOCUMENT NUMBER:	FILE NAME:	EDIT 13
"THIS DRAWING AND SPEC OR COPIED OR USED IN	CIFICATIONS HEREIN, HE WHOLE OR IN PART AS T CORVEIN	RE THE PROPERTY OF DIGITAL EQUIPMENT (C) 1981. DIGITAL EQUIPMENT	R SALE OF ITEMS WITHOUT	WRITTEN PERMISSION.	

AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER FI	ART NUMBER	PARTS LIST DESCRIPTION		QUANTITY PER VARIATION	SHEET AS OF AS
31 31 9 32 32 9 33 33 C-MD-7423354-0-0 7 34 34 8-MD-7423355-0-0 7	107560-01 006656-00 423354-00 423356-00 007113-01	WIRE, BUSS, 22AWG *** THIS ITEM IS NOT USED WASHER, LEAF SPRING BUTTON, SUPPORT TERM QUICK .152DIA .250TAB	*** BR/T	A/R 2 1	

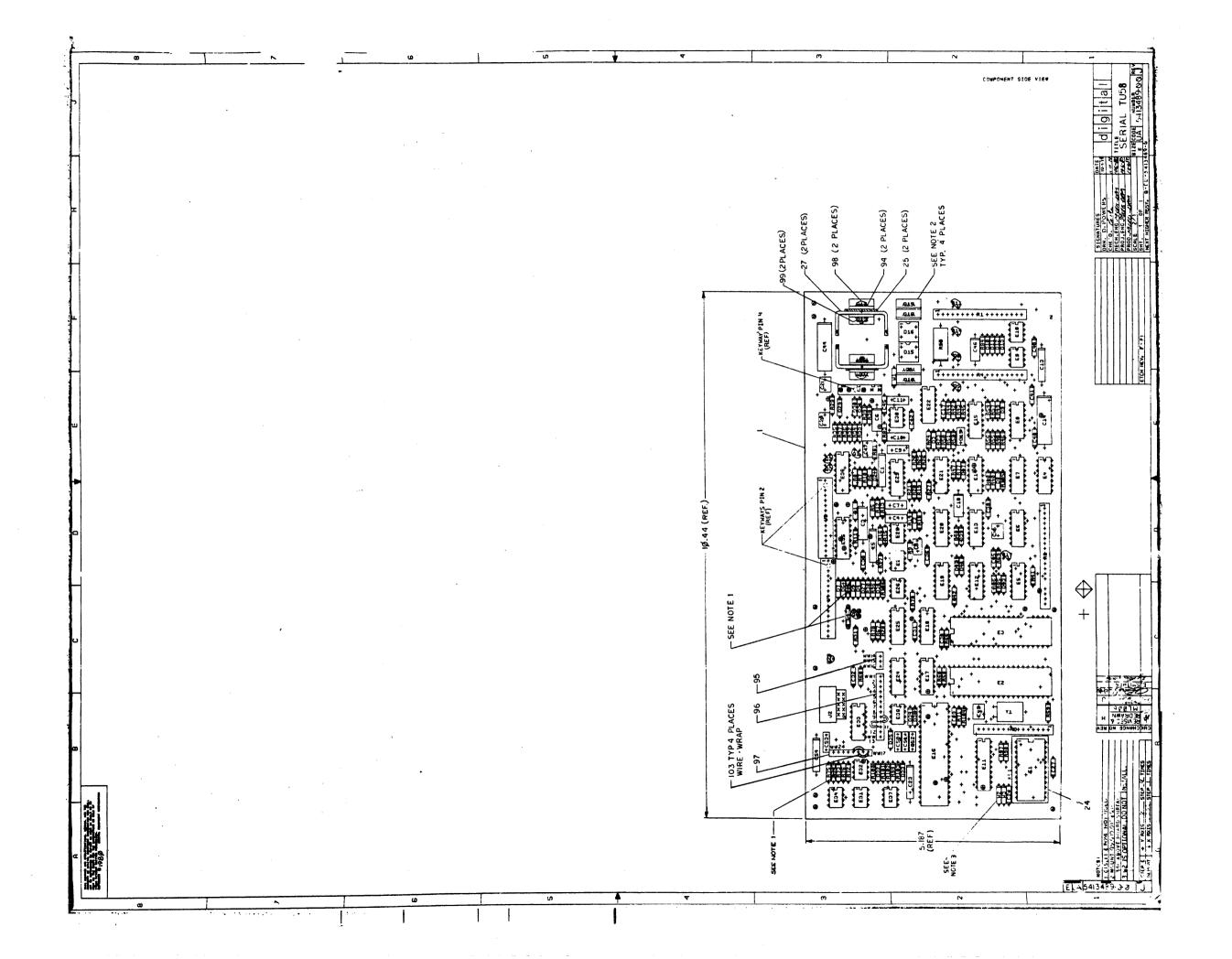
8	Į.	1	•	1	•	1	ITITIF	CARTRIDGE DRIVE	SECTION A	
+++	+++	+++	+++	+++	+++	+++		-++++++++++++++++++++++++++++++++		++++++

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SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	7015510-0-08P	Ε
		++++++++++++	+++++

B DD size code REV. NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** B-DD-5413489-Ø SERIAL TU58 * A B C D E F SERIAL TU58 CDDEFFHJ -UA-5413489-Ø-Ø 3 CDDEFFHJ SERIAL TU58 D-CS-5413489-0-1 2 DRILL & ETCH DRAWING C D D D D E E E-MD-5013488-Ø-Ø 4 ETCHED BOARD DE E E E E F F 5013488 PARTS LIST DATA BASE (5413489) CDDEFFH J K-PL-5413489-Ø-DBP BB P.C. DESIGN DATA BASE (5413489) A B BCC K-PC-5413489-Ø-DBC В 2 ETCH CUT DRAWING E-EC-5013488-0-0 C1 C1 C1 C1 C1 C1 C1 3 SERIAL TU59 E-UA-5413489-0-0 C1 C1 C1 C1 C1 SERIAL TU58 2 D-CS-5413489-0-1 61 | 61 | 61 | 61 | 61 | K-PL-5413489-0-DBP PARTS LIST DATA BASE DD DD DD 5013488 ETCH BOARD F1F1 F1 E-UA-5413489-0-0 SERIAL TU58 FIF1 F1 2 D-CS-5413489-0-1 SERIAL TU58 FIFI FI K-PL-5413489-0-DBP PARTS LIST DATA BASE (5413489) E EE 5013488 ETCH BOARD **NOTES:** SPECIAL REVISIONS - FOUND ON SHEET 2 REVISIONS
CHĞNO. 1
IST REL
MLØØ1
MLØØ2
MLØØ3
MLØØ4 DRN. P. BOSSMAN 6/14/78 TITLE **USED ON OPTION/MODEL** "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-TU58 SERIAL TU58 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN B DD PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF NUMBER REV. ENG. 8/1/18 ITEMS WITHOUT WRITTEN PERMISSION. 5413489-Ø H PROD. Pater Bator COPYRIGHT® 1978 8-1-18 SHEET 1 OF 1 DIGITAL EQUIPMENT CORPORATION

0-6842149

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AUTOMATED BY PRTLST.2I	D(16)	PARTS LIST	QTY PER VARIA	TION	SHEET A	1 OF A3
LINE ITEM DOCUMENT NUM	MBER PART NUMBER	DESCRIPTION	00		CE DESIGNATOR	
LINE ITEM DOCUMENT NUM 1	5013488-00 1215816-00 1000021-00 1000023-00 1010978-36 1000042-00 1001610-00 10013466-21 1002431-00 1005306-00 1005334-00 1005820-00 1011895-00 1012312-00 11010101-00 1102808-00 1105275-00 1110324-00 1115369-00 1213506-04 1212385-04	TU58 ELECTRONIC SERIAL HEADER.100 15POS STRAIGHT 220.0 MMF 100V 5%200PPM *** THIS ITEM IS NOT USED .1 MFD 50V 10% 1000.0 MMF 100V 5%200PPM .01 MFD 50V +80-20% 2 1 MFD 35V 10% 2000.0 MMF 500V 5%200PPM 3.3 MMF 50V+5FF 2.2MFD 35V 10% 6.8MFD 35V 10% *** THIS ITEM IS NOT USED 22.0 MMF 100V 5%200PPM .22 MFD 50V 10% .15 MFD 35V 10% *** THIS ITEM IS NOT USED 1N 752A VZ= 5.6 5% .4 D 672 TR= 15NS PIV= 60 LED 1MCD@10MA PIV=3 VM 18 PIV=100 I=1A HEADER 10POS RT ANGLE SOCKET 24PIN IC INSULATOR, RUBBER SILICONE *** THIS ITEM IS NOT USED HEAT SINK, VERTICLE MNT, ALU 120.0 .25 W 5.0 %	1 2 MICA 1 1 *** - CER 3 MICA 2 2 5U CER 17 CC 5.TANT 2 5.TANT 2 5.TANT 4 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 S.TANT 1 0 *** - MICA 1 CER 1 C	J3, J4 C10 C8, C16, C C9, C7 C2, C17, C C41, C42 C6, C46 C12 C4 C1, C3 C5, C13, C11 C19 C18	C47 C27-C33,C35,C36, ,C43,C45 C23,C54	C38,C40,
REVISION HISTORY	!BASIC PART NO: 54	13489 ! !DRN: DAN MUTNANSI	! KY !DATE: 22-MAY-78	! ! ! D !		
!PB !5413489-ML001 !M.L!5413489-ML003	ID ! [A] 00	INDEX !CHK'D: P. BOSSMAN !DES.ENG: MIKE LEIS		!		
	!H ! CD3 ! ! CE3 ! ! CF3	!DES.ENG: MIKE LEIS ! !RESP.ENG.: A. LEIS	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! !	OCUMENT NUMBER	! ! REV !
	i i CK3					1
	! ! [M] ! ! [M] ! ! [L]	! !MFG.ENG.: F. BARTON !	TOP DOCUMENT NUM	IBER:	FILE NAME: Z0582H.PLS	!EDIT #!
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والمعارضة والمصافية والمناف والمعتبر والمنافية والمنافية والماري والمناف والمناف والمناف والمناف والمناف والمناف

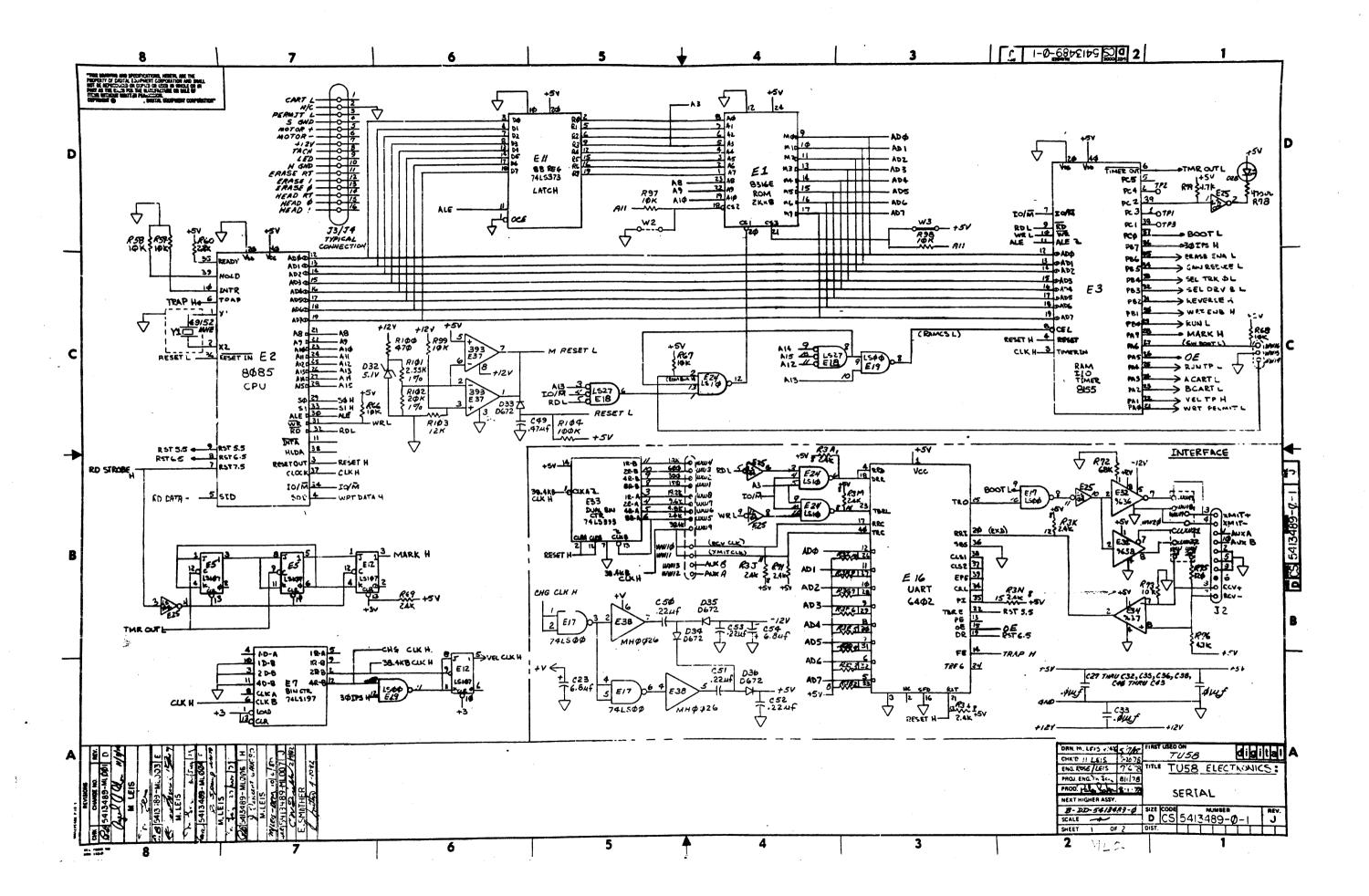
HO I OMA	ATED :	BY PRT	LST	.2D(1	(6)				PA	RTS	LI	ST	QTY	PER V	ARIATIO	V		SHEET A	2 OF
LINE 3	ITEM	DOCUME	NT I	NUMBE	ER		FART NUMBER	Ç.	DESCRIPTION				00				ENCE DESIG	NATOR	
30	30	,					1300316-00		470.0	.25 W S	5.0 %	cc	5			P5.P5	5;R100;R78:	- P84	
31	31						1300365-00			.25 W		CC	2			R10,R		, NO 4	
32	32						1300295-00			TEM IS									
33	33						1300447-00		4.70 K	.25 ₩ S		CC	8			R11.R	19,R20,R25	.R54.R79	.R74.
34	34						1300479-00		10.0 K	.25 W		cc	21				2,R24,R26,I		
															CONT		66,R67,R68		
										,					CONT		73,R97-R99		
35	35						1301322-00		180.0	.25 W S	5.0 %	CC	1			R31			
36	36						1301327-00		68.0 K	.25 W S		CC	1	1		R72			
37	37						1300432-00		3.0 K	.25 W :	5.0 %	CC	1			R6	•		
38	38						1301969-00		22.0	.25 W S		CC	1			R29			
39	39						1302092 -00		220.0 K	.25 W	5.0 %	CC	1			R51			
40	40						1302177-00		47.0 K	.25 W	5.0 %	CC	2			R14,R	23		
41	41						1302388-00		2.0 K	.25 W S	5.0 %	CC	5			R27,R	28,R34,R37	, R85	
42	42						1302391-00		20.0 K	.25 W	5.0 %	CC	1		•	R83			
43	43						1302394-00		30.0 K	.25 W S	5.0 %	CC	2			R52,R	106		
44	44						1302396-00		150.0 K	.25 W	5.0 %	CC	2			R8,R8	1		
45	45		•		,		1302398-00		470.0 K	.25 W	5.0 %	CC	4			R7,R2	1,R45,R57		
46	46						1302941-00		14.70 K			RN55D-F10	3			R13,R	16,R56		
47	47						1303177-00		2.40 K	.25 W		CC	8			R17,R	30,R41,R42	,R43,R60	, R69
48	48						1303312-00		10.0 K	.25 W	1.0 %	RN55D-F10	2			R12,R	15		
49	49						1305324-00		4.99 K			RN55D-F10	4			R38,R	39,R47,R49		
50	50						1309386-00		5.60 M	.25 W		CC	. 1		0.00	R40			
51	51						1001610-01					JSED ***	-				•		
52	52						1311466-CO			2.0 W	5.0 %	WW	1			R53			
53	53						1313596-00		20.0 K			RN55D-F10	2			R77,R	102		
54	54	*					1315660-00		R NETWORK 1			4.7K 20PIN	1	•		R2			
55	55	,					1315661-00		R NETWORK M				2	•		R1,R4			
56	56			•			1315662-00		R NETWORK 1			.0 % 15PIN	1			R3			
57	57						1503409-00			NP 310			2			Q2,Q4			
58	58						1509142-00			NP 200			1			Q1			
. 59	59			• 1			1509338-00					40 90 P	6				,Q8,Q11,Q1	4,Q17	
60	60						1510421-00		D 44C8 N			60 20	. 4	•	27		,Q12,Q13		
61	61						1510598-00					60 20 Y	4				0,015,016	•.	
62	62						1812396-06		XTAL 4.91	152 MH) AN OP AI			1			Y1			
63	63	4					1910282-00					OTDU - DIIAI -	Ţ			E30	A FO/ FO7		
64	64						1910645-00		•			RIPH,DUAL, ATE-HEX 11	- 4				0,E26,E27		
65	65 66						1910741-00 1911242-00					JSED ***	¥.			E8			
66							1912107-00			OP AM			•			E15			
67	67	• • •	٠.				1912107-00		339			R,RUAD	<u> </u>		•				
68 69	68 69	٠.					1912799-00		LSOO			QUAD 21N,F	2			E29 E17,E	10		
70	70	45					1912801-00	, .	L502			JAD 2IN	-			E13	17		
71	71						1912803-00	:	774LS04			ATE, HEX	. 5			E6,E2	5		
72	72						1912807-00		LS10			TRIFLE 3IN	1	•••	· .	E24	.		
73	73		•		٠.		1912813-00		LS27			RIPLE JIN	. 1			E18	•		
74	74						1912832-00					MASTER/SL	. 2			E5,E1	2		
75	7 5						1912857-00					ARY, PRESET	ī			E7	-		•
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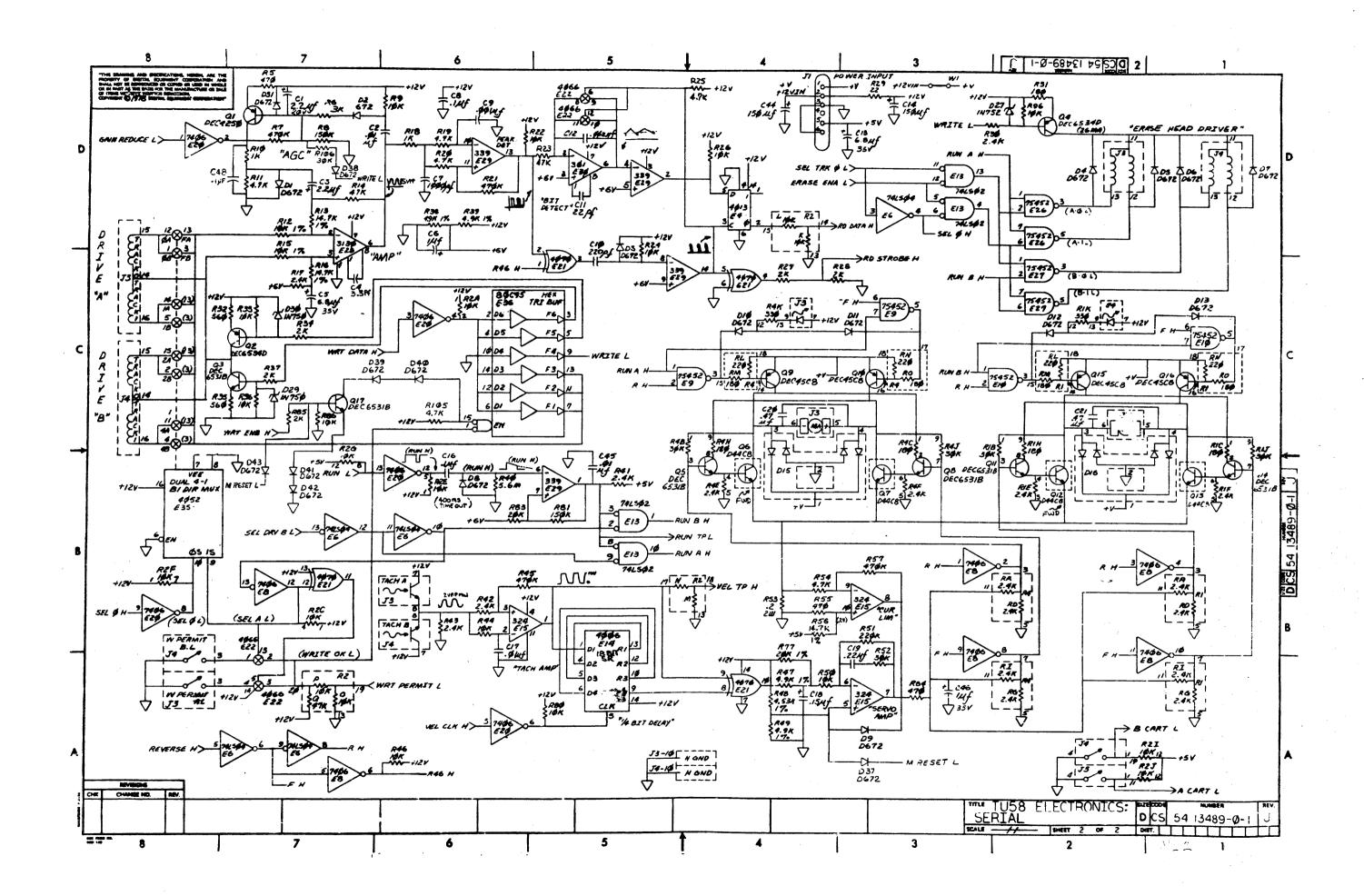
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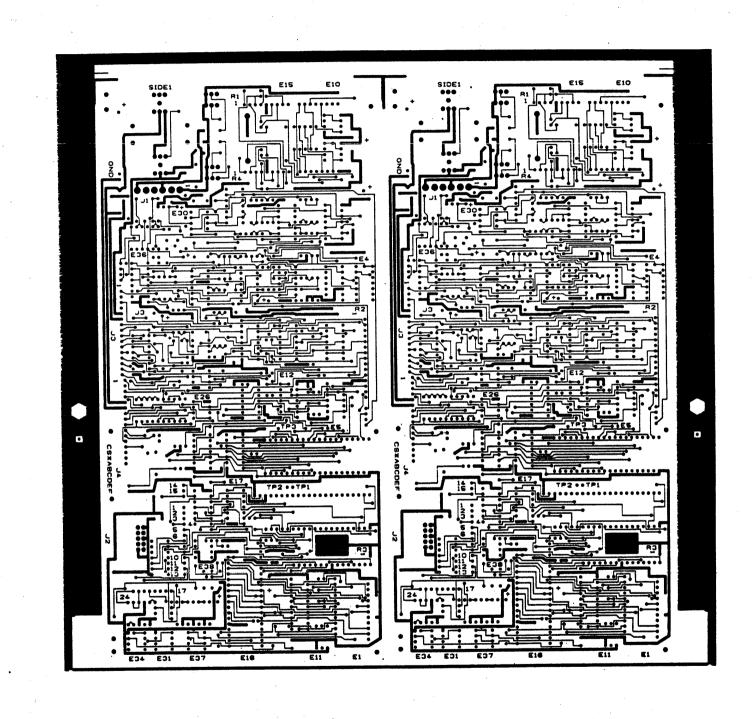
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AUTOMA	TED B	Y PRTLST.2D(16)		PARTS LIST	0TV 6C6	VARIATION		SHEET	A3	OF	A3
LINE I	TEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	00		REFERENCE	DESIGNATOR			•
76	76		1914451-00	74LS393 COUNTER, BINARY, 4BIT	1		E33				
70 77	77 77		1914466-00	3130E OP AMP MOS/FET IN,CM	ī		E28				
78	78	•	1915219-00	LS373 FF-D OCTAL-TRANSPARE	ī		E11				
76 79	79		1915415-00	9636 DRIVER, DUAL, EIA RS-	ī		E32				
80	80		1915416-00	9637 RECEIVER, DUAL, RS-42	ī		E34				
81	81		1915417-00	9638 DRIVER, DUAL, EIA RS-	1		E31				
82	82	•	2113605-00	4006B SHIFT REG, 18 STAGE	· 1		E14				
83	83		2113609-00	4013B FF-D DUAL W/SET/RESE	1		E4				
84	84		2113630-00	4052B MULTIPLEXER 4CHAN DI	1		E35				
85	85	•	2113632-00	4065B BILATERAL SWITCH-QUA	1		E22 .				
86	86		2113634-00	4070B X-OR GATE-QUAD CMOS	1		E21			,	
87	87		2113937-00	UART 125K BUAD	1		E16				
88	88		2114663-00	MM 80C95 BUFFER-GATE-HEX TRIS	1		E36				
89	89		2114963-00	UP,8-BIT NMOS	1		E2				
90	90		2114964-00	RAM 2048 MOSJ-STATIC	1		E3	•			
91	91		23089E2-00	E2-01	1		E1				
92	92		1212619-07	HEADER.156 6POS STRAIGHT	1		J1				
93	93		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2		W1,W3				
94	94	USED FOR Q7 & Q12	9010057-00	WASHER, INSULATING SHOULDER FOR	2						
95	95		1215816-01	HEADER.100 3FOS STRAIGHT	1						
96	96		1215816-02	HEADER.100 13FOS STRAIGHT	1						
97	97		1215816-03	HEADER.100 8FOS STRAIGHT	. 1						
98	98		9006011-01	SCREW, PAN, PHIL 4-40X 3/8 SS	2						
99	99		9006557-00	NUT, KEP , 4-40X 1/4 AF	2						
100	100		1100124-00	1N 750A VZ= 4.7 5% .40W P	2		D29,D30				
101	101		1301890-00	560.0 .25 W 5.0 % CC	2		R32,R35	•			
102	102		1313840-00	4.53 K .25 W 1.0 % RN55D-F10	1		R48				
103	103		9105740-55	WIRE(WRAP)30AWG UL1423	A/R .						
104	104		1012084-03	150 MFD 15V +75-10% AL EL	2	: '	C44,C14				
105	105	•	9107256-11	*** THIS ITEM IS NOT USED ***	-						
106	166		1910741-01	7406N BUFFER, HEX	1		E20				
107	107		5414232-00	*** THIS ITEM IS NOT USED ***	-	4					
108	108		1310633-00	2.55 K .25 W 1.0 % RN55D-F10			R101				
109	109		1300488-00	12.0 K .25 W 5.0 % CC	1		R103	*			
110	110		1302466-00	100.0 K .25 W 5.0 % CC	1		R104		-		
	111		1105871-00	1/4M5.1AZ1 = 5.1 1% .25W N	1		D32				
	112		1914156-00	LM 393 VOLT.COMPARATOR DUAL	1		E37				
113			1912098-00	0026 DRIVER, MOS CLOCK, 2	1		E38			•	
114	114		1010274-01	.22 MFD 50V +80-20% Z5U CER		4.7	C50-C53	10			
115	115		1010279-00	.47 MFD 25V 20% CER	3		C20,C21,C4	17			

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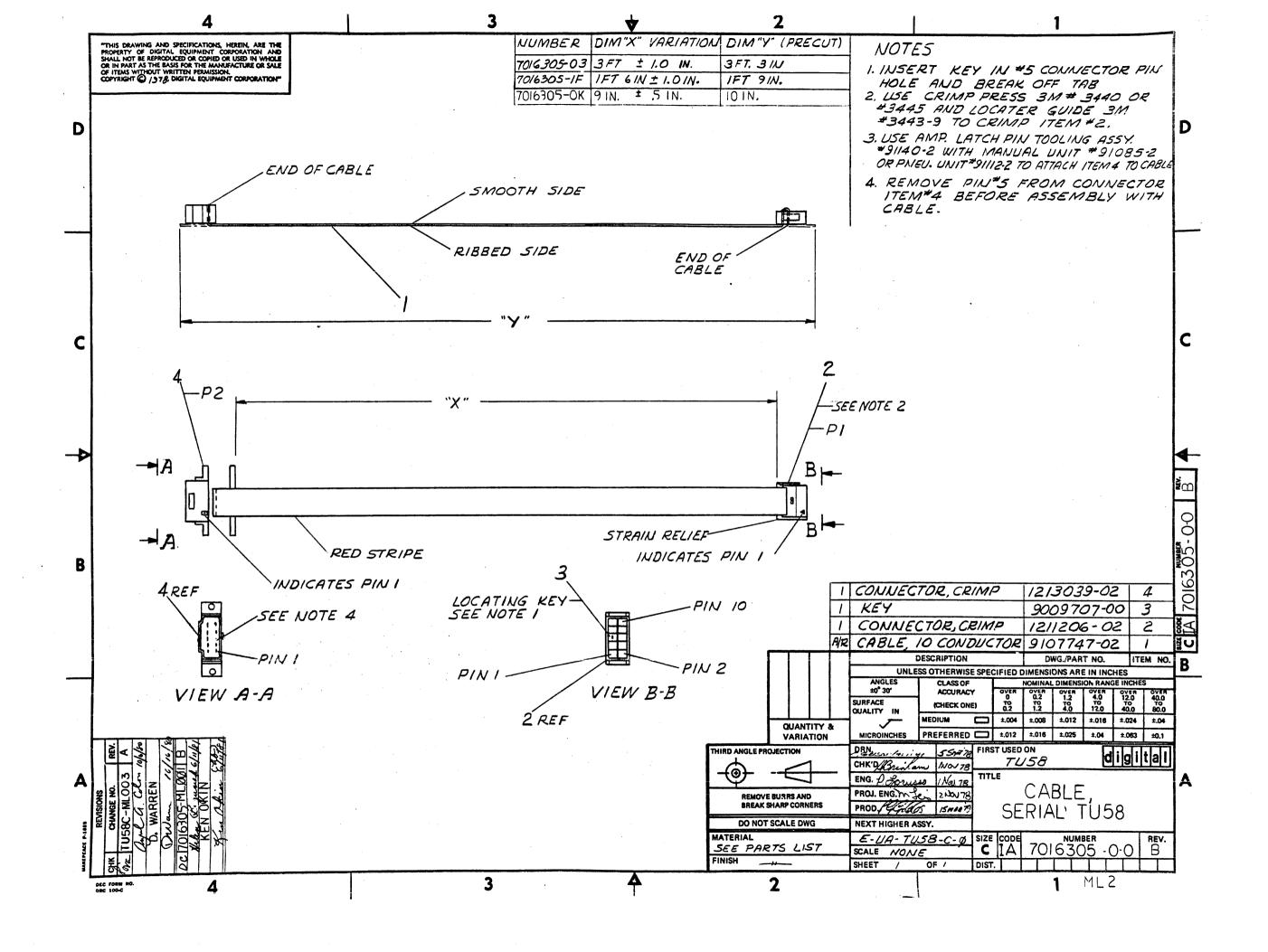


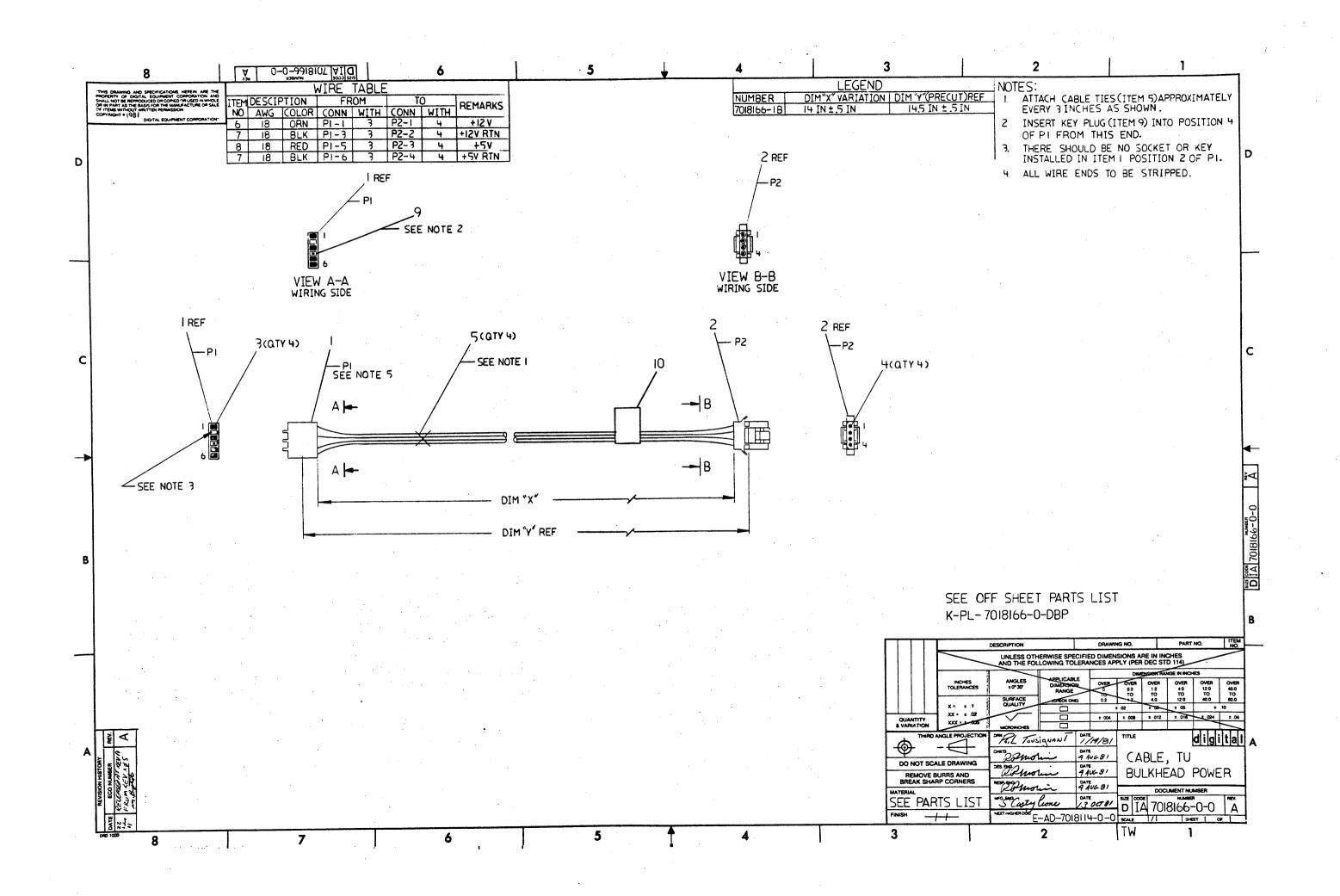




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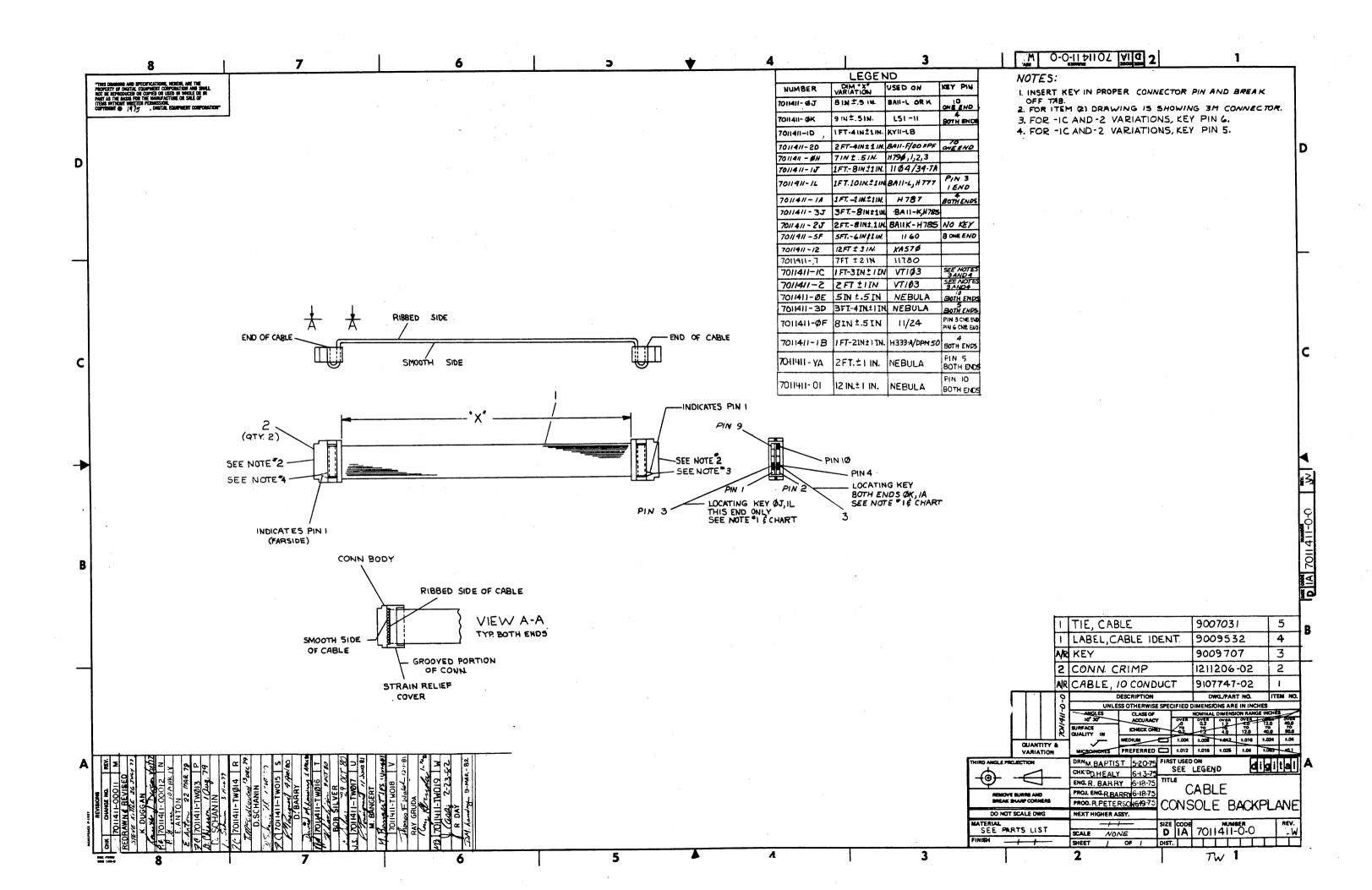


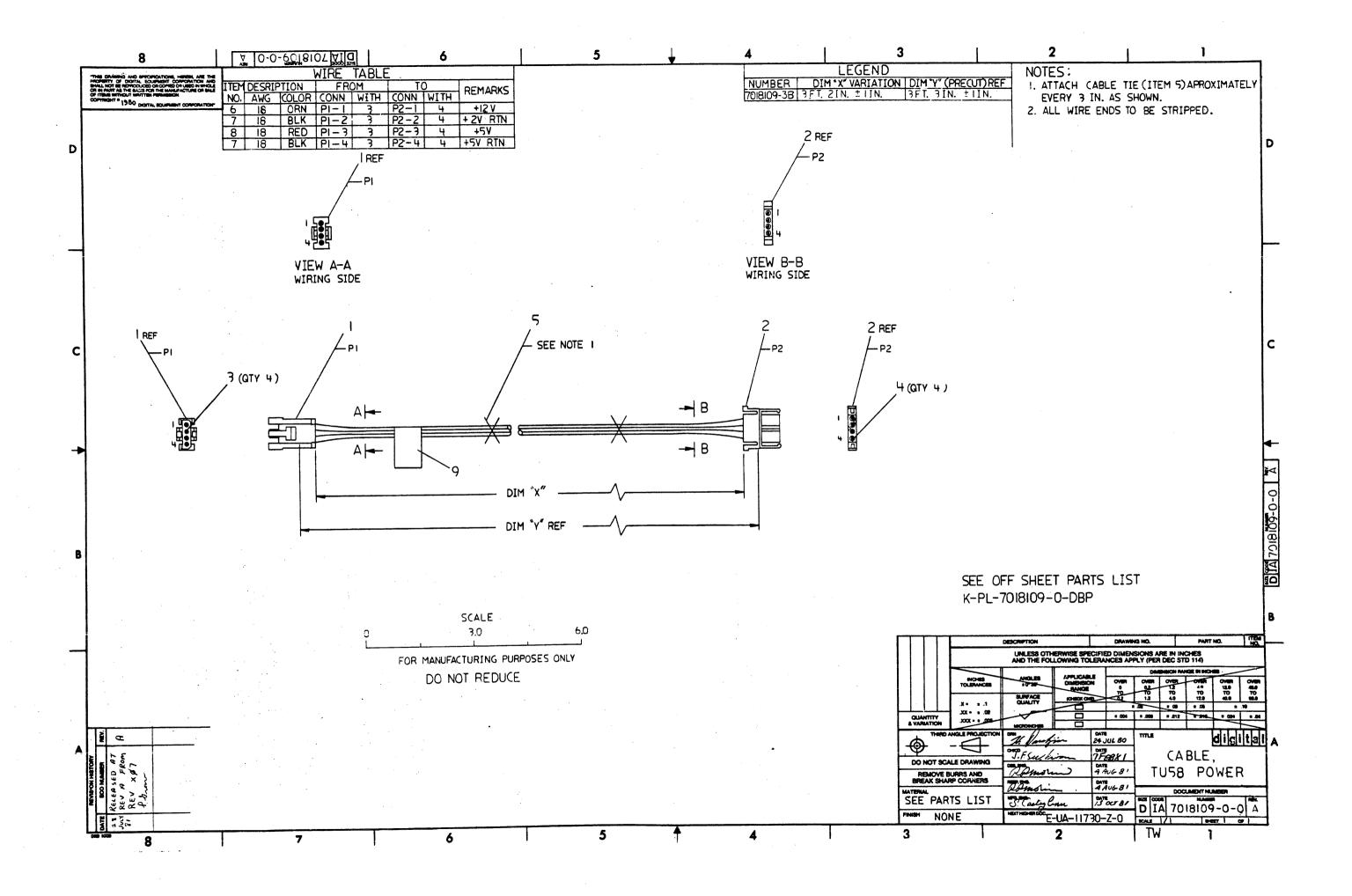
AUTOMATED BY PRILST.3F(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	FARTS LIST DESCRIPTION	QUANTITY PER VARIATION
	12122021-09 12122021-00 12122021-00 12122021-00 12122021-00 91077956-20 910777159 91214125-01	CONN SPOS HOUSING ROPT HPIN KEYED PIN CRIMP TYPE SKT 16-18ANG REEL TIE CABLE BUNDL DIA 0- 3/4"=101 NIRE STRND 18ANG UL1430 O NIRE STRND 18ANG UL1430 R WIRE STRND 18ANG UL1430 R CONN KEYING PLUG LABEL, POWER SUPPLY, 2-7/8" LG X	10015-1-1 150015-1-1

SHEET A1 OF A1

11 NOTE: TITEMS 6,7 AND 8 ARE IN INCHES

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		(F)				ASSEMBLY N D-IA-70181	UMB!	R: J-0	TOP D	OCUMENT NU 7018114-0-	MBER: O		FILE NAM Z1854A.F	E: LS	EDIT #
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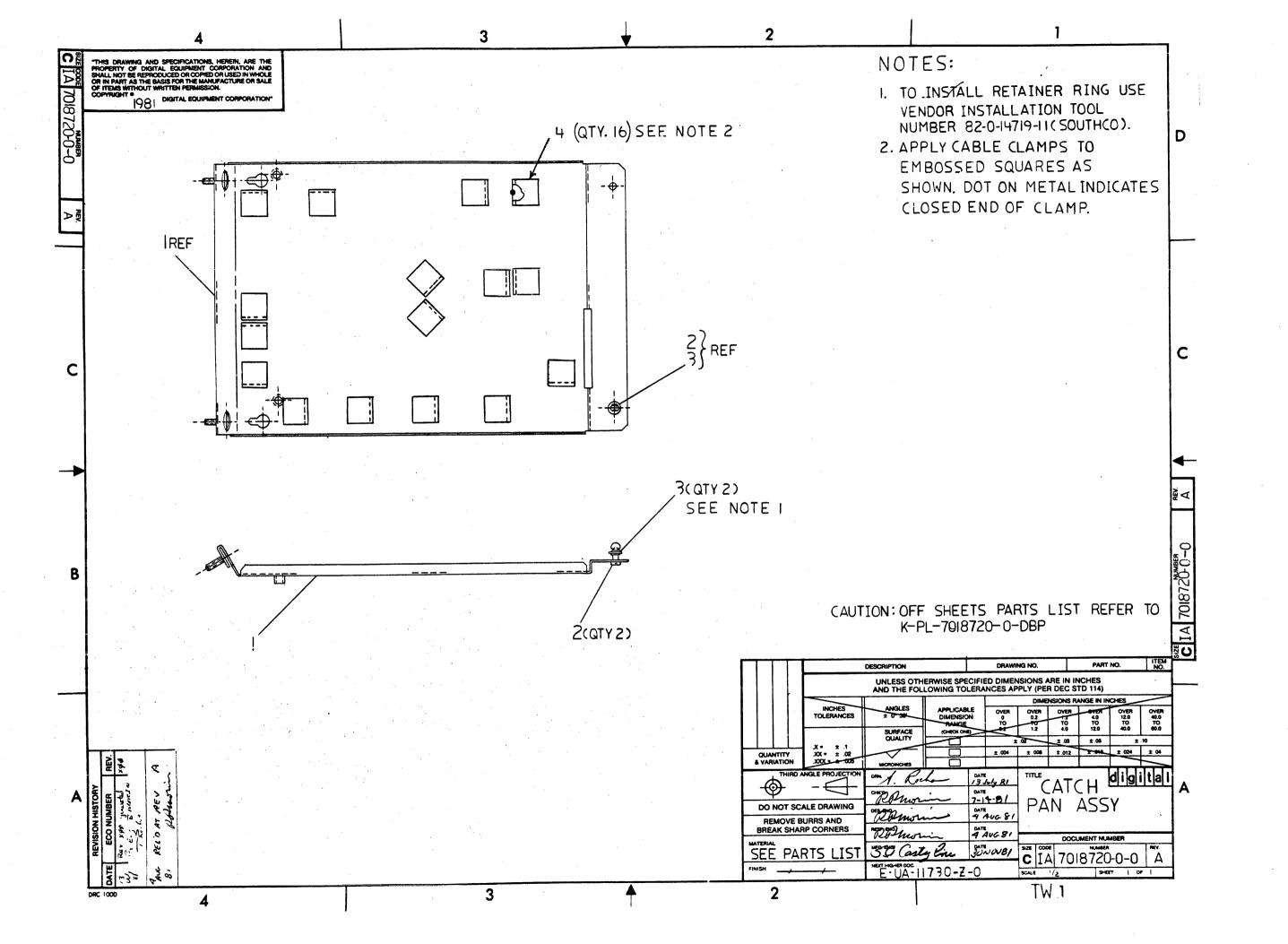


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LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	
MONDULEMON- MONDO FINAT	1213901-03 1213441-00 1213543-00 1213563-00 9007738-03 9107738-00 9107738-01	CONN.PLUG MPIN CONN MSKT CONN PIN 18-16ANG SKT 15-18ANT REEL TIE.CABLE BUNDL.DIA 0- 3 H"=101 WIRE.STRND.18ANG UL1430 WIRE.STRND.18ANG UL1430 WIRE.STRND.18ANG UL1430 WIRE.STRND.18ANG UL1430 R LAGEL, POWER SUPPLY, 2-7/8" LG X	######################################

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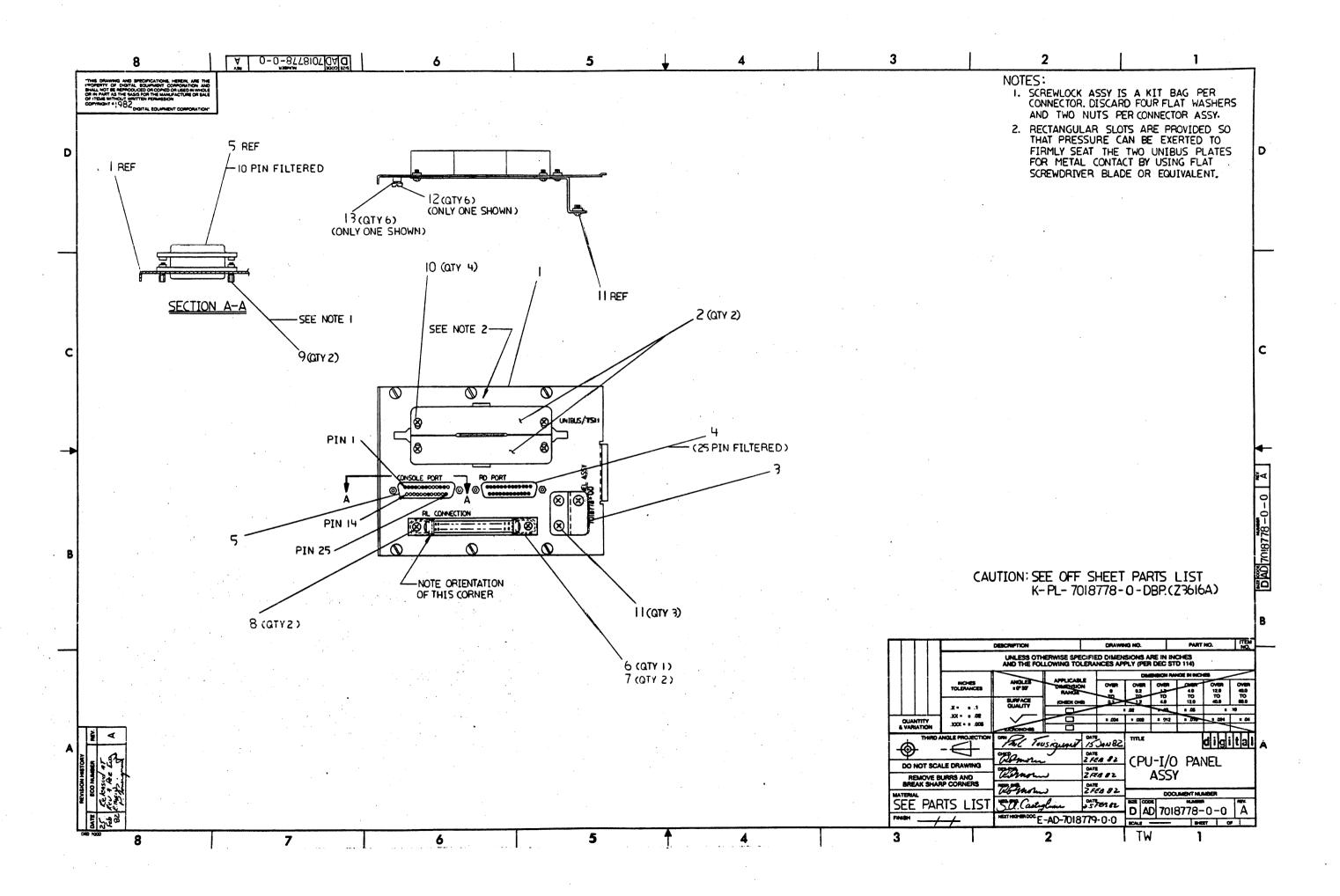
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				[8]	DES.ENG.:	R. MORIN	DATE: 28-JUL-Si	i i		
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	i	e e e e e e e e e e e e e e e e e e e		(E)	MFG.ENG.:	S. CASTIGLIONE	DATE: 28-JUL-81	K PL	7018109-C-DSP	A
				(F)	ASSEMBLY N D-IA-70181	UMBER: 09-0-0	TOP DOCUMENT NUM E-UA-11730-Z-O	BER:	FILE NAME: 21853A.PLS	EDIT #
	+!+++	THIS DRAWING	AND S	PECIFICATIONS HEREIN, ARE IN WHOLE OR IN PART AS THE	THE PROPER	TY OF DIGITAL EQU	JIPMENT CORPORATION	ON AND SHAL	L NOT BE REPRODUC	ED
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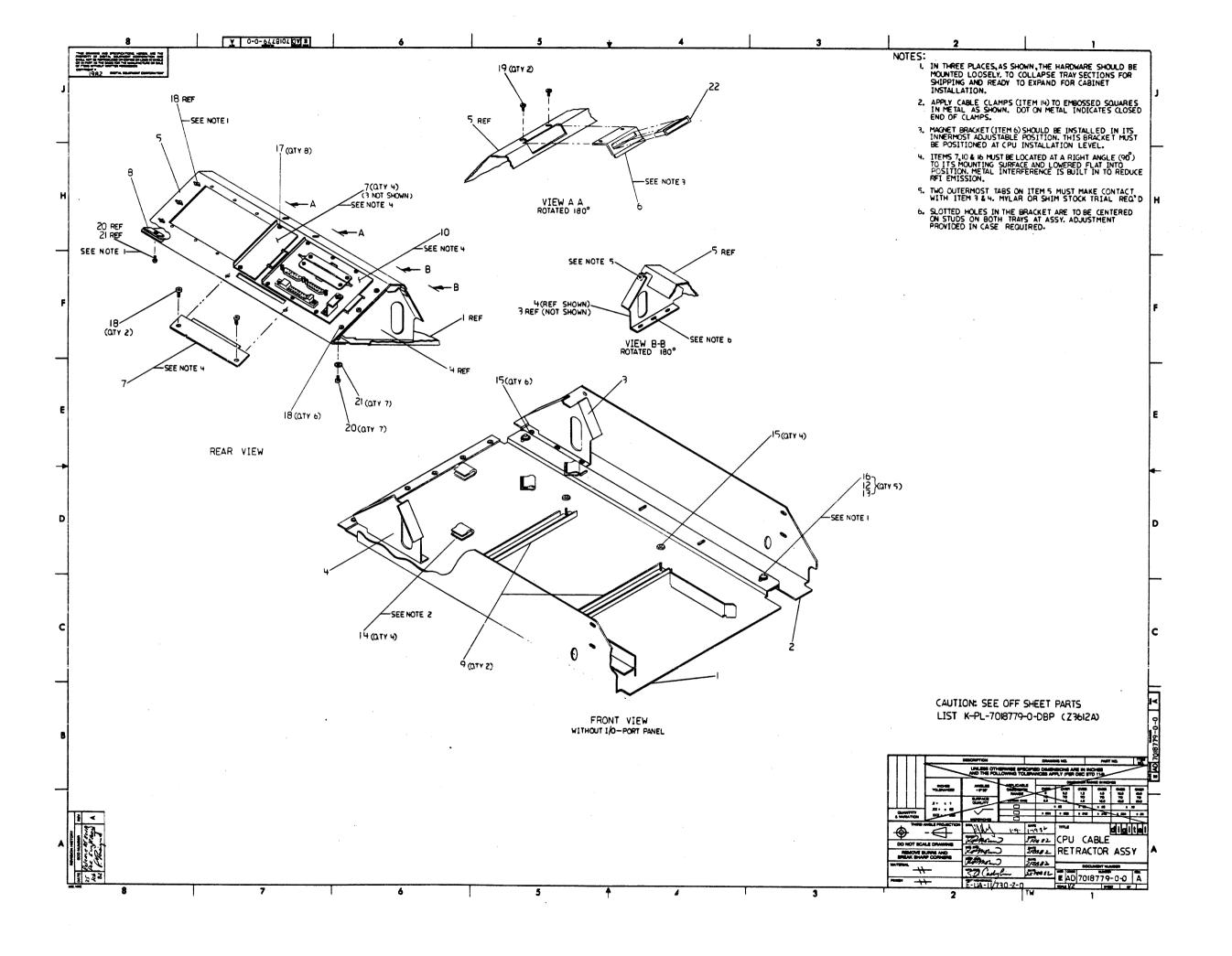
AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER PART NUMBER	PARTS LIST DESCRIPTION OUT OUT OUT OUT OUT OUT OUT O	SHEET A1 OF A1
1	PAN.CATCH RETAINER, PUSH-ON SS/PAS FASTNR, 1/4 TURN, WING HD CLAMP, CABLE, FOR FLAT CABLE 16	

[B] DES:ENG:: R. MORIN (C) RESP.ENG:: R. MORIN DATE: 30-JUL-81 +++++++++++++++++++++++++++++++++++	PARTS LIST PAN ASSY DOCUMENT NUMBER	+++++
[B] DES.ENG.: R. MORIN DATE: 30-JUL-81 CONTROL OF CONTR	DOCUMENT NUMBER	++++++
[D]	DUCUMENT NUMBER	++++++
보고, 항상 회장에 된 전문을 보고 있다는 보면 1일을 보다면 보고 있는 것이다. 그런 그는 그는 그는 그는 그는 그는 그를 보고 있다면 보다는 것이다.	NUMBER	REV
MFG.ENG.: S. CASTIGLIONE DATE: 30-JUL-81 K PL	7018720-0-DBP	A +++++
ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: E-UA-11730-Z-O	FILE NAME: ! Z2835A.PLS	EDIT #
"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SH OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION "	ALL NOT BE REPRODUC NRITTEN PERMISSION.	ED.



AUTOMATED	BY PRTLST.3P(14)	•	PARTS LIST	QUANTITY PER VARIATION
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	00
1 1 2. 2 3 3 4 4 5 5 6 6	C-IA-7426654-0-0 A-FS-1217431-0-0 A-FS-1217431-0-0	7426405-04 7018781-00 7426654-01 1217431-00 1217431-02 1211591-35 1211591-38	PANEL, SEXTAL BRKT. ASSY, UNIBUS FILLER BRACKET, CABLE GROUND CONN, D SUB 25POS ASSY STRAIGHT W CONN, D SUB 10POS ASSY STRAIGHT W CONN, ZIF 40PIN RCPT ASSY CONN, ZIF 40PIN RCPT, SWAP IN GU	1
8 9 9 9 10 10 11 11 12 12 13 13	A-PS-1219534-0-0	9006010-01 9008451-00 9009546-00 9010174-00 1219534-01 9006688-00	SCREW, PAN, PHIL 4-40X 5/16 SS SCREW LOCK - ASSY SCREW, PAN, PHIL, SEMS 4-40X .375L SCREW, PAN, PHIL, SEMS 6-32X .25 L SCREW, CAPTIVE, SLTD HD 4-40X .60LG WASHER, LOCK, S.S. \$4	2 2 4 3 6 6

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						•
	1 1	D-IA-70118549-0-0	7018549-00	BETRACTOR TRAY RIVETED	1.	
	2 2	E-IA-74225733-0-0	7425733-88	TRAY, R.H. HALF	1	
• ,	3 3	E-IA-7422 66 19-0-0	7426619-81	I/O PANEL BRKT. (RIGHT)	<u>.</u>	
	4 4	E-IA-74226619-0-0	7426619-22	I/O PANEL BRKT. (LEFT)	1.	
!	5 5	• E-IA-7422 6 618-0-0	7426618-81	I/O PORT PANEL	1.	•
	5 . 5	C-IA-7422652Ø-Ø-Ø	7426620-21	BRACKET, MAGNETIC	1	·
	7 7,	C-HD-74226621-0-0	7426621-81.	COVER, PLATE-R8Ø HOLE	1.	
	8 8	B-IA-74225652-0-0	7426652-31	NUT PLATE	1	
•	9 9	C-IA-70119772-0-0	7018772-00	CLAMP ASSY	2	•
1	9 19		7918778-39	CPU-1I/O PANEL ASSY	1.	
1		D-MD-74226407-01-DBU	7426407-31 .	PANEL, SUB, DOUBLE	4	
. 1			9006664-00	WASHER, FLAT, .437 OD X .218 ID	5 :	
1			9007651-33	WASHER, LOCK, EXTERNAL TOOTH #19	5 :	
1	4 14		9009636-00	CLAMP, CABLE, FOR FLAT CABLE	4	•
1	5 15	•	9006563-00	NUT, KEP 8-32X 11/13AF	19	
1	6 16		9006071-03	SCREW, TRUS, PHIL, 19-32X 3/8	5	
- 1	7 17	•	9309546-30	SCREW, PAN, PHIL, SEMS 4-40X .375L		•
1	8 18		9010174-00	SCREW, PAN, PHIL, SEHS 6-32X . 25 L		
	9 19		9012174-31	SCREW, PAN, PHIL, SENS 8-32X .31 L	2	
2	8 29		9006037-33	SCREW, TRUS, PHIL, 8-32X 3/8	7 .	
2	21 21		9008151-00	WASHER, LOCK, EXT. TOOTH #8	7	
2	22 22	A-PS-12102908-0-0	1212908-01	DOOR CATCH, MAGNETIC, SNAP-IN	1:	
		######################################	*##############	### RELEASABLE	*******************	***

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	•		נפט	IMFG.ENG.:	S. CASTIGLIONE	IDATE: 27-JAN-82	K i PL	7018779-0-DBP.	i
		1	! [62] !	IASSEMBLY N IE-AD-70187	UMBER: 79-0-0	TOP DOCUMENT NUM	BER:	FILE NAME: Z3612A.PLS	EOIT.

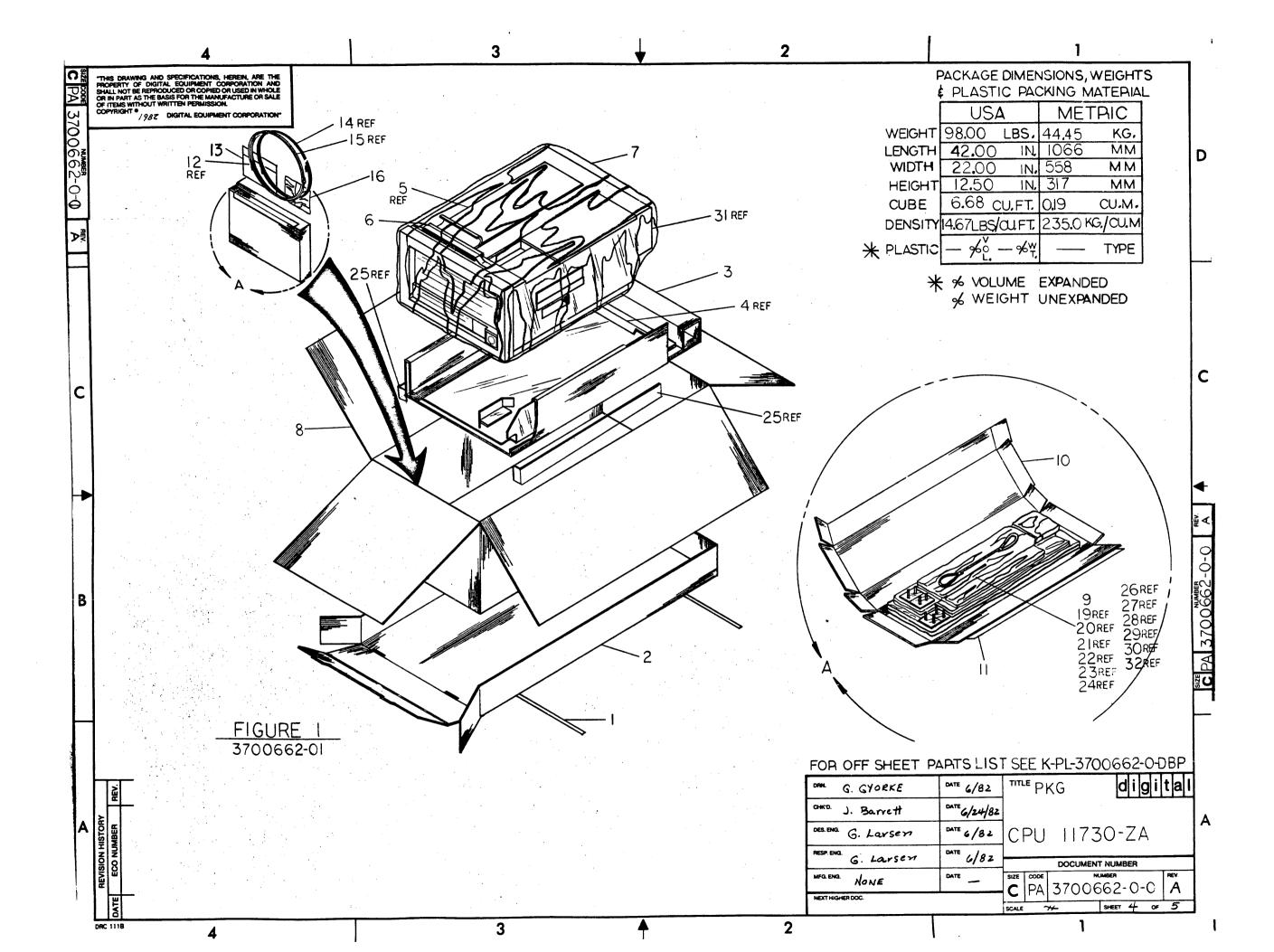
			IPMENT CORF D MASSACHU		
PACKAGI	NG IN	STRUCTION		REV: DATE:	_
TITLE PKG	PU 11	730-ZA			
			LEGEND		
VARIATI	ON	USED ON	PACKAGE TYPE	REMARKS	
3700662-	01	11730-ZA			
	REFER	PARTS	LIST 3700662-0 Parts List K-PL		
STEP	-		STRUCTIONS 370	0662-01	
1.	SEVEN (9906	(7) FEET LO 199-00).	ONG AND LAY	•	
2.	SET U	P ONE (1) END ON THE TWO (2)	OF THE DIE CUT) STRAPS.	TRAY (9906832-01) AND	
3.	SET U	P THE DIE CUT	SHEET (9906933-	-01).	
4.	THAT	RETRACTOR TRA THE ANGLED (IGATED SQUARE.	Y (7018779-00) Cable Connect	ON DIE CUT SHEET SO OR RESTS AGAINST THE	
5.	WRAP	THE SHEET AROU	ND THE RETRACTO	OR TRAY.	
6.	SO TH	THE WRAPPED R MAT THE CORRUGA SET UP END OF T	TED SQUARE ON	INTO THE DIE CUT TRAY THE SHEET RESTS AGAINST Y.	
7.	OF T	ONE (1) PRESSU HE CPU BOX U MENT TAPE (9009	SING FIFTEEN	(7018718-00) TO THE TOP (15) INCHES OF GLASS	
8.	PLACE ASSE		E BAG (9905128	-23) OVER THE CPU UNIT	
9.	THAT	THE CPU BOX THE BEZEL OF END OF THE DIE	THE CPU UNIT	PPED RETRACTOR TRAY SO ASSEMBLY IS FACING THE	
10.	FOLD	OVER THE OPEN	END OF THE DIE	CUT TRAY.	
SHEET 4	E 5 "C'		4/2/02 CITE	CODE NUMBER	REV
ENG _I /	n	6-20-87 Sean N.	Barret	PA 3700662-0-0	Α
EN-01189-16-RE	VB(33L)	•		SHEET 1 OF	5

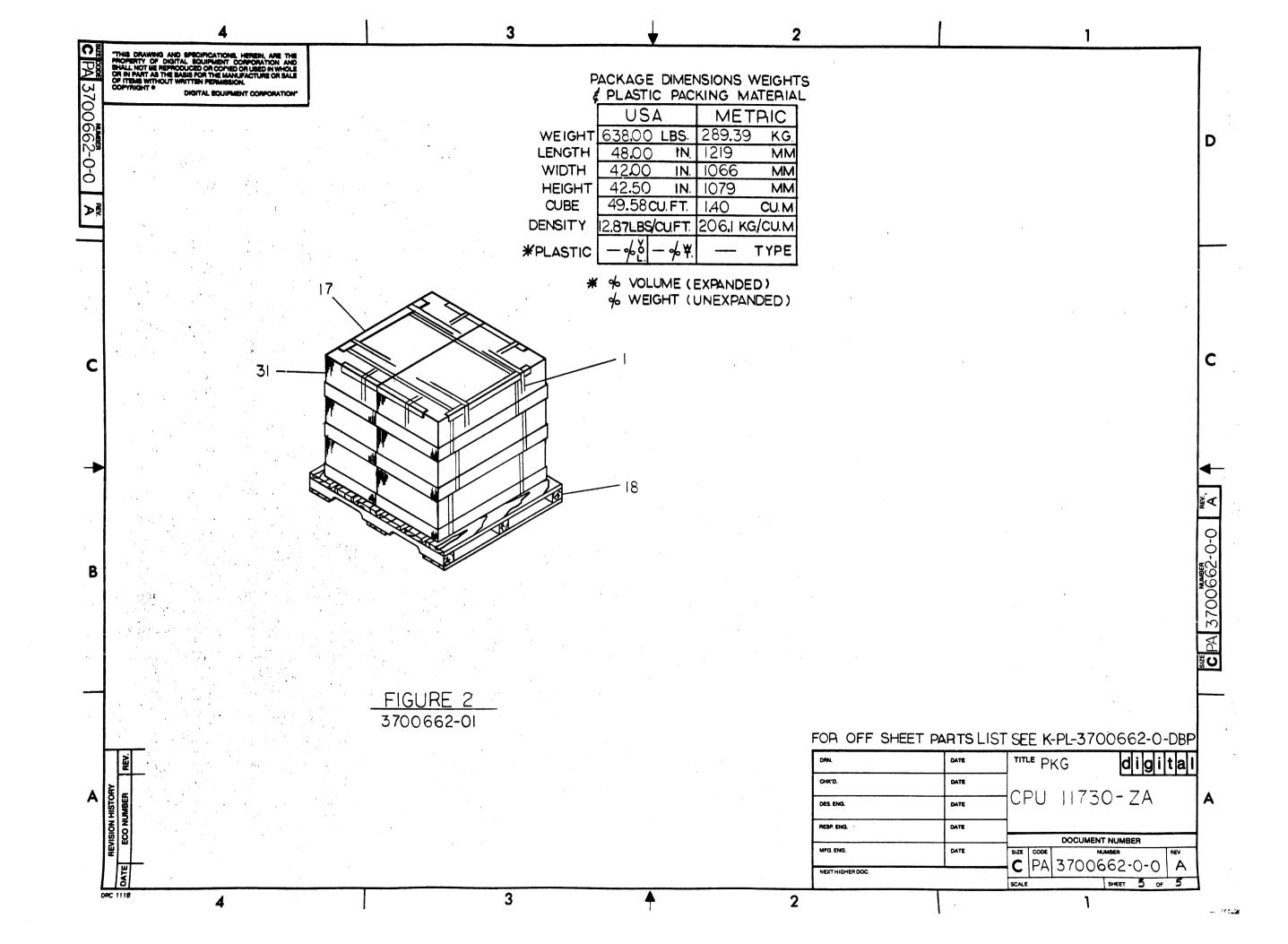
1.	PLACE ONE (1) HALF SLOTTED CPU UNIT ASSEMBLY AND INTO TOP FLAPS OPEN.	CARTON (99069 THE DIE CUT 1	30-01) OVER TO
	PLACE EACH OF THE FOLLO SPECIFIED, INTO A PLASTI THEM ON THE FOURTH PANE (9906786-00):	C RAG (998655)	7-14) AND PLA
ITEM	I DESCRIPTION	I PART NUMBER	I QUANTITY I
A	GUIDE AND CLAMP	7425927-00	1
В	SHIPPING BRACKET	7413659-00	1
С	BRACKET, CARRIER/BOX	7425928-00	1
D	BRACKET, CAB/CARRIER	7425929-00	1 1
E	CABLE, FERRULED	1215700-04	1
F	CABLE CARRIER	121902-00	1
G	CLAMP, R80 CABLE	7426623-01	1
Н	CLAMP, DMF CABLE	7426625-01	1 1
	BAR CLAMP ASSY	7426723-01	1
J	STUD PLATE	7426335-01	4
K	SLIDE MTG BRKT, LEFT	7425734-00	2
L	SLIDE MTG BRKT, RIGHT	7425734-01	2
		SIZE CODE NUMB	ier REV
			00662-0-0

PACKAGING INSTRUCTION

CONTINUATION SHEET

PACKAGI	ING	INSTRUCTION			CONTINUATIO	ON SHEET
TITLE PKG	CPU	11730-ZA				
13.		CLOSE AND SEAL THE FIVE (24) INCHES OF CARTON SEAL	PANEL	FOLDE	ER USING TWEN 9905729-00).	ITY-FOUR
14.		PLACE THE SEALED FIVE PANE CARTON IN FRONT OF THE CPU CPU 11730-ZA	L FOI J BEZI	LDER I	NTO THE HALF	SLOTTED
15.		PLACE ONE (1) TUSE-K MEDIA BUBBLELITE ENVELOPE (9905) FIVE PANEL FOLDER.	A CAR 012-0	TRIDGE 5) AŅD	(3615809-00) PLACE ON TO) INTO A
16.		PLACE ONE (1) AC LINE COLLINE CORD 1700083-22) IN TOP OF THE FIVE PANEL FOL	יוי סוַ	700083 IE HAL	S-21) AND ONE F SLOTTED CA	(1) AC ARTON ON
17.		PLACE A HARDWARE KIT BAG SLOTTED CARTON ON TOP OF	(B-PL THE A	1173 C LINE	D-Z-5) INTO '	THE HALF
18.		PLACE TWO (2) SLIDES (121 ONE (1) ON EACH SIDE OF THE INSIDE OF THE HALF RETRACTOR TRAY AS SHOWN I	THE SLOTT	ED CAI	RTON AND THE	
19.		CLOSE THE FLAPS OF THE HA	LF SL	OTTED	CARTON.	
20.		SEAL THE CARTON BY CLAMITHE CARTON.	ING	THE T	WO (2) STRAP	S AROUND
21.		PALLETIZE PER FIGURE : (9906185-05) AND FOUR (9905734-02).		ING F		GLEBOARD TRAPPING
						-
			SIZE	CODE	NUMBER	REV
		i	Δ		3700662-0-0	





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11730 PROCESSOR TITLE DRN. DATE USED ON OPTION/MODEL D. LANDRY 11730 DATE CHK'D. MODULE CHANGE NO. REVISIONS 25-FEB-82 PROJ. ENG. DATE 25-FEB-92 SIZE CODE REV NUMBER

SHEET

B DD

DATE

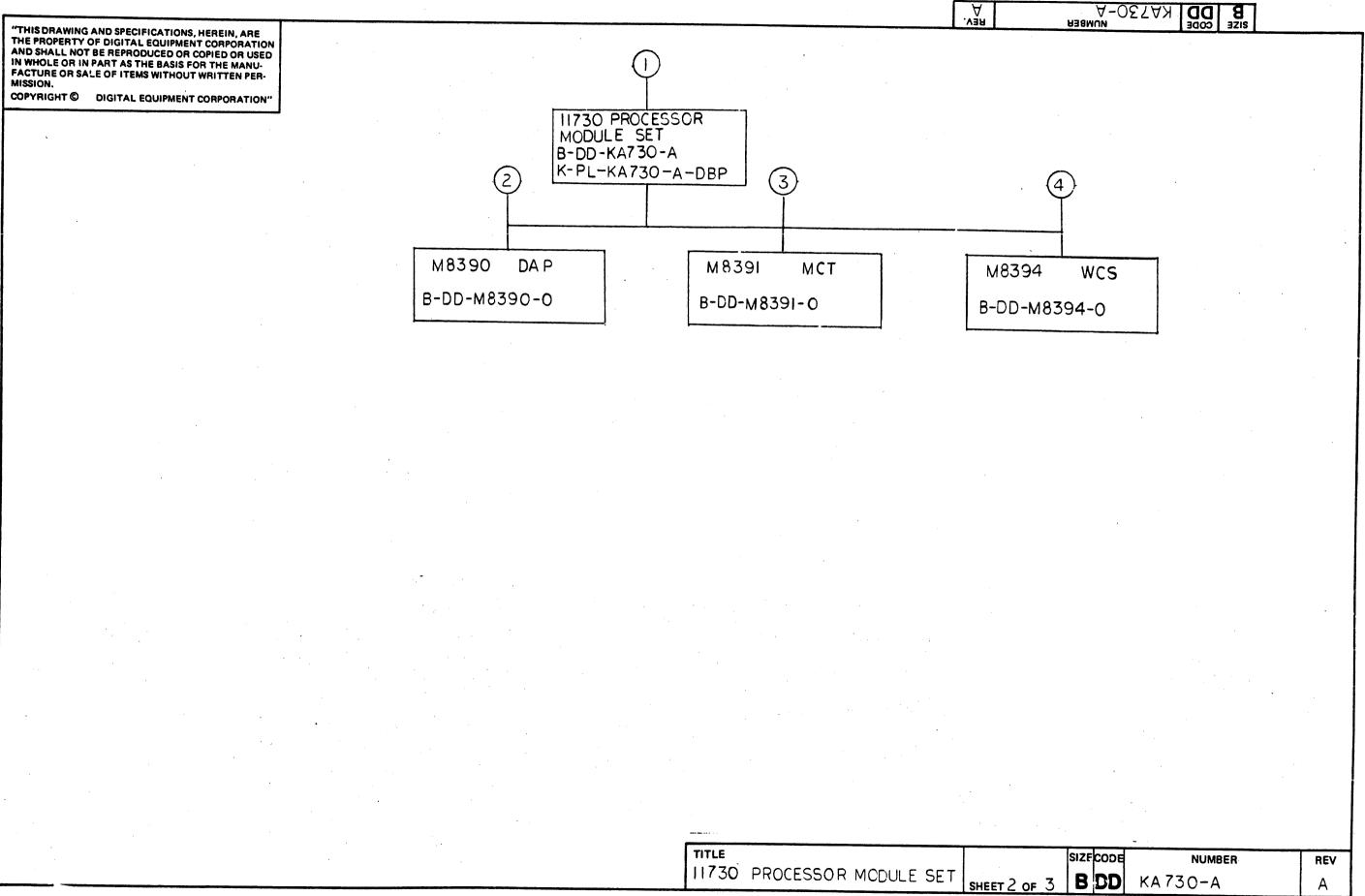
25/6382 DIST.

KA 730-A

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FIND NO.	DRAWING NO.	DESCRIPTION	ТУРЕ	FIND NO.	DRAWING NO.		DESCRIPTION	N	2027
1	D-DD-KA730-A	11730 MODILE SET-DWG DIRECTORY							土
	K-DI -KA/30-A-DRP	11730 MODULE SET-DWG DIRECTORY 11730 MODULE SET-PARTS LIST							+
	NIL MATOO TOO			\vdash		 			+
	2.22.110.70.0	MOZOO DAD MODILLE - DWG DIRECTORY			<u> </u>				İ
2	B-DD-M8390-0	M8390 DAP MODULE - DWG DIRECTORY DAP UNIT ASSEMBLY DAP PARTS LIST DAP BLOCK DIAGRAM	E/M					·	\downarrow
	K-PI -M8390-0-DBP	DAP PARTS LIST							+
_	D-BD-M8390-0-0	DAP BLOCK DIAGRAM	E F	\vdash		· ·			†
	D-CS-M8390-0-X	DAP CIRCUIT SCHEMATICS (D-CS-M8390-0-DAPA THRU -DAPM)		-					1
	D-GL-M8390-0-0	DAP ROM AND PAL LISTINGS							4
	D CL MIOSSO O O								+
									_
_	D DD 149701-0	M8391 MCT MODULE - DWG DIRECTORY							_
<u> </u>	5 1 A 1 1 O 7 O 1 O O	NACT LINIT ACCEMBLY	E/M						_
_	K-PL-M8391-0-DBP	MCT PARTS LIST	$\frac{1}{E}$						
_	D-UA-M8391-0-0 K-PL-M8391-0-DBP D-BD-M8391-0-0 D-CS-M8391-0-X	MCT UNIT ASSEMBLY MCT PARTS LIST MCT BLOCK DIAGRAM MCT CIRCUIT SCHEMATICS (D-CS-M839I-O-MCTA THRU -MCTN) MCT ROM AND PAL LISTINGS	- F -	-					_
	D-CS-M8391-0-X	MCT CTRCUTT SCHEMATICS (D-CS-M839I-O-MCTA THRU -MCTN)							
	D-GL-M8391-0-1	MCT ROM AND PAL LISTINGS		 					_
	D-FD-M8391-0-X	INC. I FLOW DIAGRAMS							_
		(D-FD-M8391-0-1 THRU -2!)							_
	·								_
_		DIDECTORY				 			_
7_	B-DD-M8394-0	M8394 WCS MODULE — DWG DIRECTORY WCS UNIT ASSEMBLY	E/M						_
	K-DI -M8394-0-DRP	WCS PARTS LIST							_
-	D-BD-M8394-0-0	WCS BLOCK DIAGRAM							_
	D-CS-M8394-0-X	WCS BLOCK DIAGRAM WCS CIRCUIT SCHEMATICS (D-CS-M8394-0-WCSA THRU -WCSR)	<u> E</u>						_
	D CL M0704 O L	WCS ROM AND PAL LISTINGS							_
	D-GL-M8394-0-1	WCS ROM AND THE EIGTINGS							_
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•	M MECHANICAL E/M ELECTRO/MECHANICAL			117	30 PROCESSOR MO	JUULE SEI	SHEET S OF S B DI	TW	

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	• • •			
AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION A	SHEET A1 OF A1
1 1 B-DD-M8390-0 2 2 B-DD-M8391-0 3 3 B-DD-M8394-0	M8391-00	DAP (DATA PATH) MCT (MEMORY CONTROLLER) HEX WRITEABLE CONTROL STORE, HEX, FOR RELEASABLE	1 1 1 1	

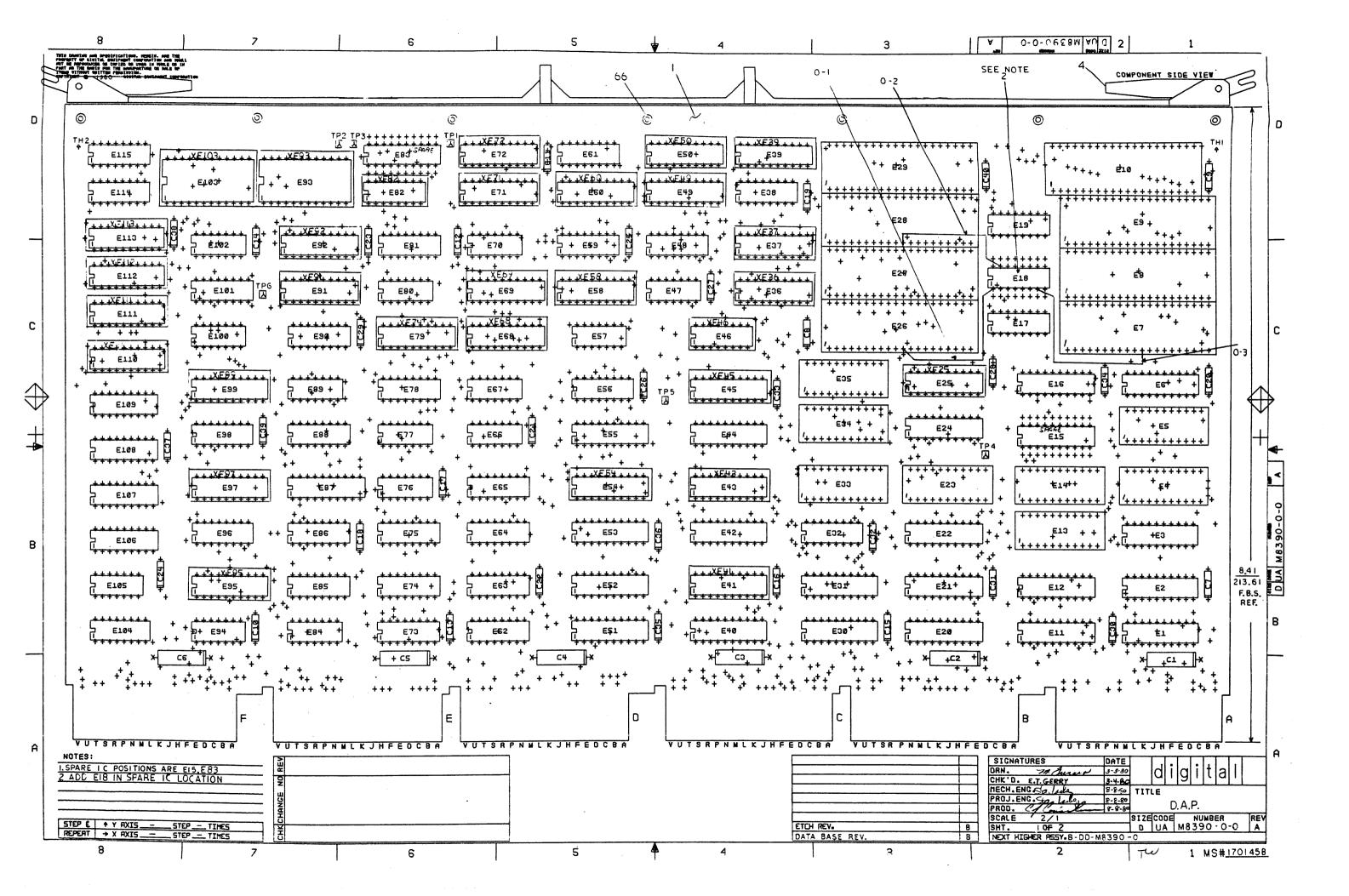
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. !A		VARIATION	INDEX	CHKIDI	. a Audau				
		•			U. LANURY	!DATE: 03-MAR-82 -!		ROCESSOR MODULE SI	ET .
	. CB3			DES.ENG.:	D. LANDRY	! !DATE: 03-MAR-82	!		
	[0]		-	RESP.ENG.:	D. LANDRY	-	! !	DOCUMENT NUMBER	
	ED3							NUMBER	! REV
	! CEJ			MFG.ENG.:	S. CASTIGLIONE	!DATE: 03-MAR-82	K PL	KA730-A-DBP	i. A
	CFJ.	•		ASSEMBLY N					!EDIT
	! ! ! Drawing ani	DRAWING AND SPECIFICATI	! ! CC3 ! ! CD3 ! ! CD3 ! ! CE3 ! ! CF3 ! ! CF3 ! ! CF3 DRAWING AND SPECIFICATIONS HEREIN	DRAWING AND SPECIFICATIONS HEREIN, ARE	CCJ !RESP.ENG.: !CDJ !MFG.ENG.: ! CFJ !MFG.ENG.: ! ASSEMBLY N	CC3 RESP.ENG.: D. LANDRY CD3 PROPERTY OF DIGITAL EDITIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTUR	RESP.ENG.: D. LANDRY DATE: 03-MAR-82 [D] MFG.ENG.: S. CASTIGLIONE DATE: 03-MAR-82 MFG.ENG.: D. LANDRY DA	RESP.ENG.: D. LANDRY DATE: 03-MAR-82 SIZE CODE CD] MFG.ENG.: S. CASTIGLIONE DATE: 03-MAR-82 K PL CF] ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: B-DD-KA730-A DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHAL	DOCUMENT NUMBER CD

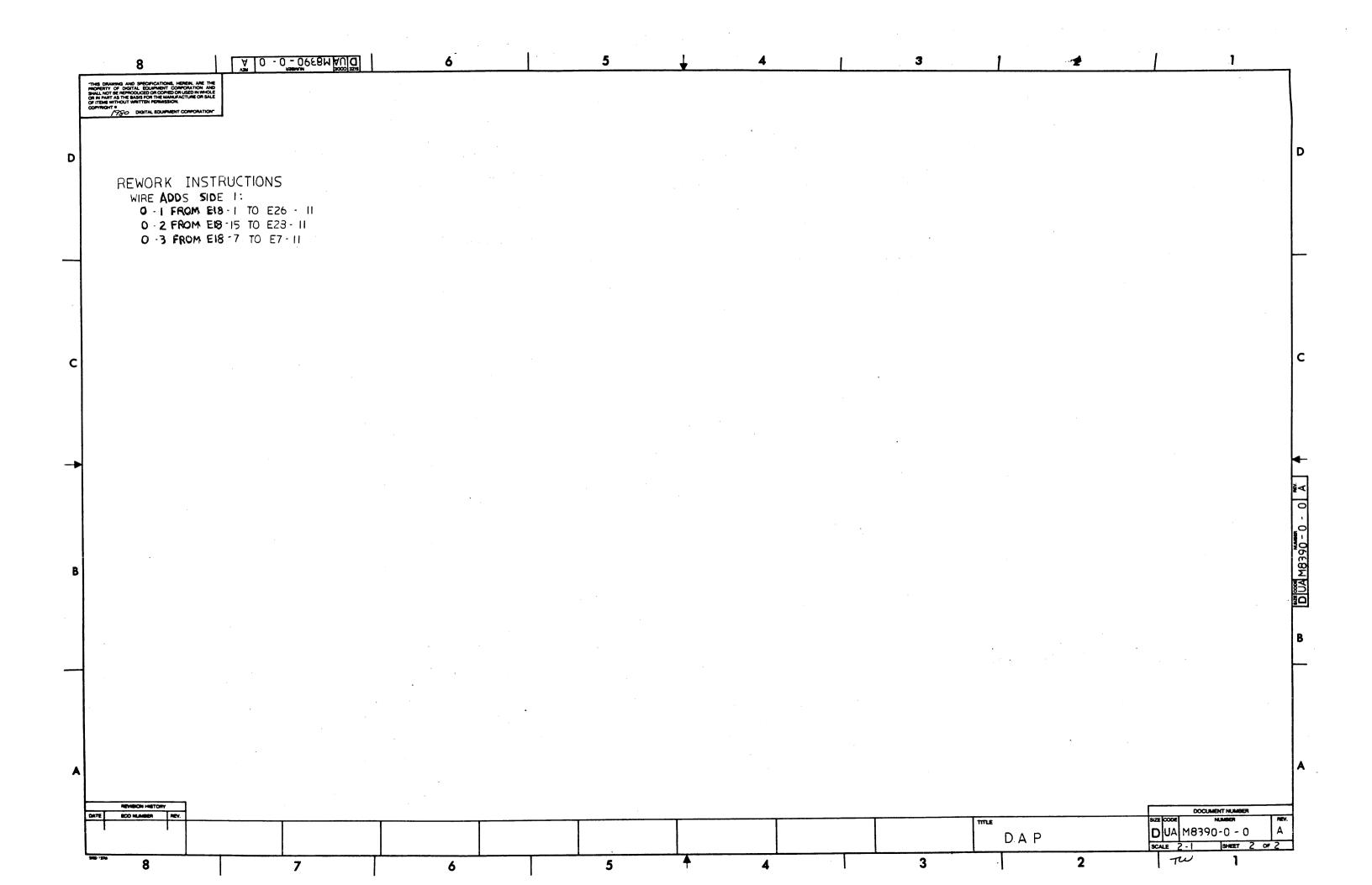
SIZE CODE NOMBER DRAWING NO. PART NO. **REVISIONS DESCRIPTION** MODULE REVISION AB A B 1 DRAWING DIRECTORY B-DD-M8390-0-0 2 **UNIT ASSEMBLY** B-UA-M8390-0-0 2 A B PARTS LIST K-PL-M8390-0-DBP ВВ ETCH BOARD REVISION 5013860 ΑB DESIGN DATA BASE PC K-PC-5013860-0-DBC 5 DRILL AND ETCH DRAWING D-MD-5013860-0-0 AB 3 ETCH CUT DRAWING D-EC-5013860-0 A B DESIGN DATA BASE SUDS K-CS-M8390-0-DBS AB 1 MICRO WORD DECODE AND REG ADDR GEN D-CS-M8390-0-DAPA А В 1 DATA PATH CLOCKS AND CONTROL D-CS-M8390-0-DAPB A B DATA PATH AND LS (HIGH WORD) D-CS-M8390-0-DAPC 1 AB DATA PATH AND LS (LOW WORD) D-CS-M8390-0-DAPD 1 A B D-CS-M8390-0-DAPE 1 BUS IB AND BUS D DRIVERS A B BUS NAD AND BUS IB CONTROL 1 D-CS-M8390-0-DAPF 1 OS MUX AND CC CONTROL D-CS-M8390-0-DAPH A B CONTROL STORE REG AND SEQUENCER 1 D-CS-M8390-0-DAPJ AB 1 MICRO PC AND INTERRUPT CONTROL D-CS-M8390-0-DAPK A B CONSOLE INTERFACE AND CONTROL 1 D-CS-M8390-0-DAPL АВ FILTER CAPACITORS 1 D-CS-M8390-0-DAPM DATA PATH BLOCK DIAGRAM D-BD-M8390-0-0 1 A 13 ROM AND PAL LISTINGS D-GL-M8390-0-0 11/730 CONTROL STORE FORMATS D-BD-M8390-0-1 Α D-TD-M8390-0-0 1 11/730 CPU MICRCOYCLE TIMING
 DATE
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 XXXXXXXXXXXXXXXXXX
 12-81
 TW001
 B
 NOTES: *CONTROL STORE IS THE SUDS DATA BASE NO CONTROLLED PAPER ORIGINALS EXIST 7-15-80 TITLE DRN. **USED ON OPTION/MODEL** J. CASEY 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-DAP PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D J. CASEY 7-15-80 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE | CODE NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. S. LACKEY 8-8-80 M8390-0 В PROD. C. CONSIDINE COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION 8-8-80 SHEET 1 OF

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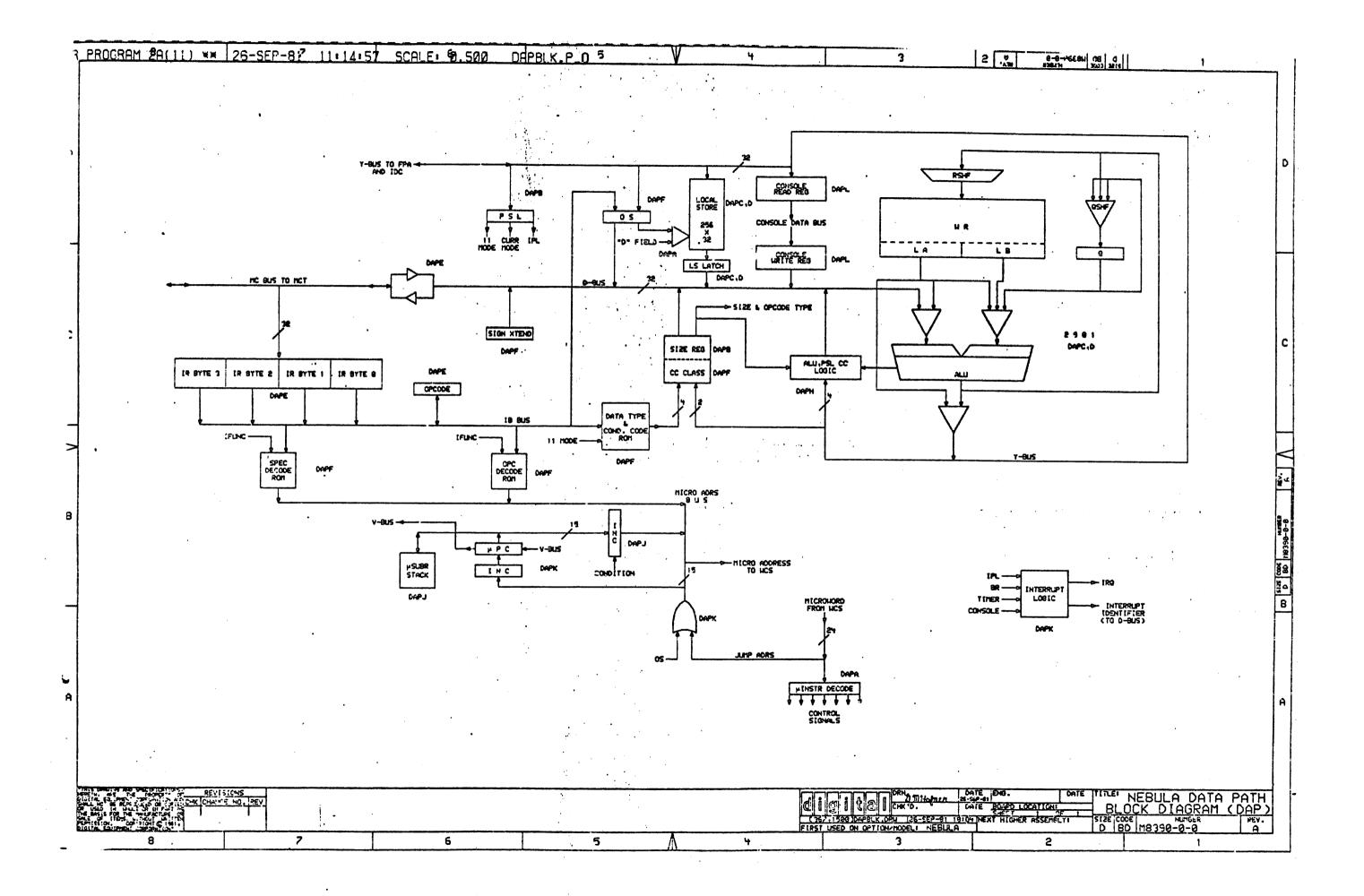


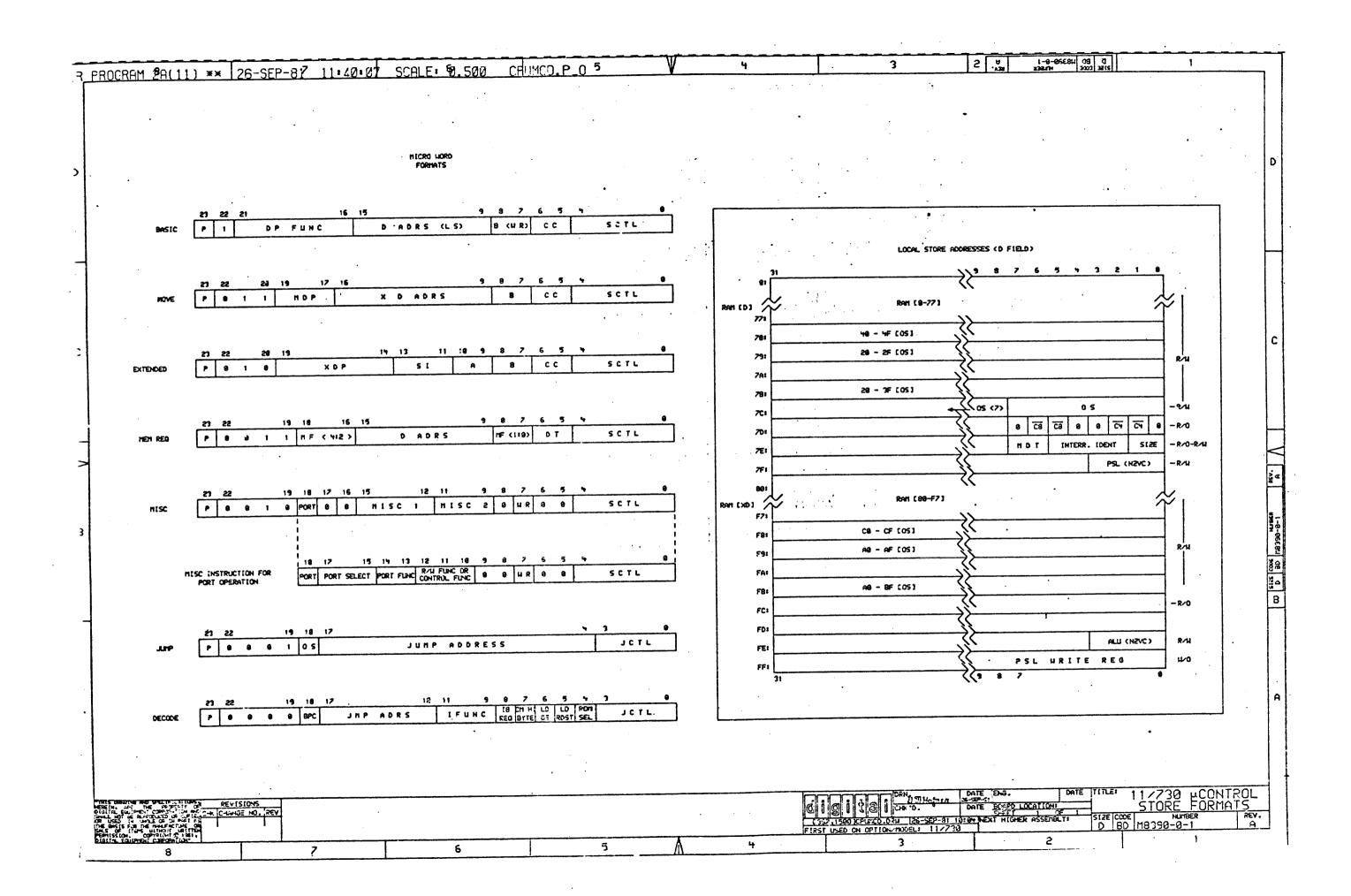
AUTOMATED BY PRILST.3M(41) LINE ITEM DOCUMENT NUMBER PART NUMBER	PARIS LIST DESCRIPTION	QTY PER VARIATION OD REFERENCE DESIGNATOR
1 D-MD-5013860-0-0 5013860-00 1012084-01 1012784-00 1216988-02 1215006-02 1215006-04	DAP 8 MFD 25V +75-10% AL EL .047 MFD 50V +80-20% CER HANDLE, MODULE, HEX TWO EJECTORS SKT, IC 16PIN DIP TIN PLATE SKT, IC 20PIN DIP TIN PLATE	C1-C5 C7-C40 2 XE46, XE82 XE36, XE37, XE39, XE41, XE43, XE45, XE36, XE37, XE39, XE41, XE43, XE45, CONT XE49, XE50, XE54, XE58, XE60, XE68, CONT XE69, XE71, XE72, XE79, XE91, XE92, CONT XE95, XE97, XE99, XE110, CONT XE111-XE113, XE25
7	SKT, IC 24PIN DIP TIN PLATE R NETWORK 14-180 14-390 16PIN 74S00 NAND GATE-QUAD ZIN 74S04 INVERTER GATE-HEX 1I 74S10 NAND GATE-TRIPLE 3IN 74S20 NAND GATE-DUAL 4INPU 74S64 A-O-I GATE 4-2-3-2 74S153 MUX 1 OF 4 (DUAL) 74S158 MUX 1 OF 2 (QUAD) 74S158 MUX 1 OF 2 (QUAD) 74S151 MUX 1 OF 8 74S175 FF-D QUAD COMMON CLO 8641 TRANSCEIVER BUS, QUA SN 74S257 MUX, QUAD 2 TO 1 74S138 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S139 DECODER-DUAL TWO-INP 74S138 LOOK AHD CARRY GEN 74S02 NOR GATE-QUAD ZIN PO DM 85S68N REGISTER, 64BIT EDGE LS251 MUX 8 INPUT, TRI-STA	26
ENG ECO NUMBER REV SECTION A OF A SECTION VARIATION I I I I I I I I I I I I I I I I I I	DATE CHK'D: E.T.GERRY DATE	TE: 27-FEB-80 DIGITAL
[D] [E] [F] [H] [J] [K] [M] [N] **THIS DRAWING AND SPECIFICATIONS HEREIN OR COPIED OR USED IN WHOLE OR IN PART	RESP.ENG.: S.LACKEY MFG.ENG.: J.CONSIDINE ASSEMBLY NUMBER: D-UA-M8390-0-0 RESP.ENG.: D-UA-M8390-0-0	DOCUMENT NUMBER E: 7-29-80 SIZE CODE NUMBER REV DOCUMENT NUMBER: FILE NAME: Z12698.PLS ENT CORPORATION AND SHALL NOT BE REPRODUCED

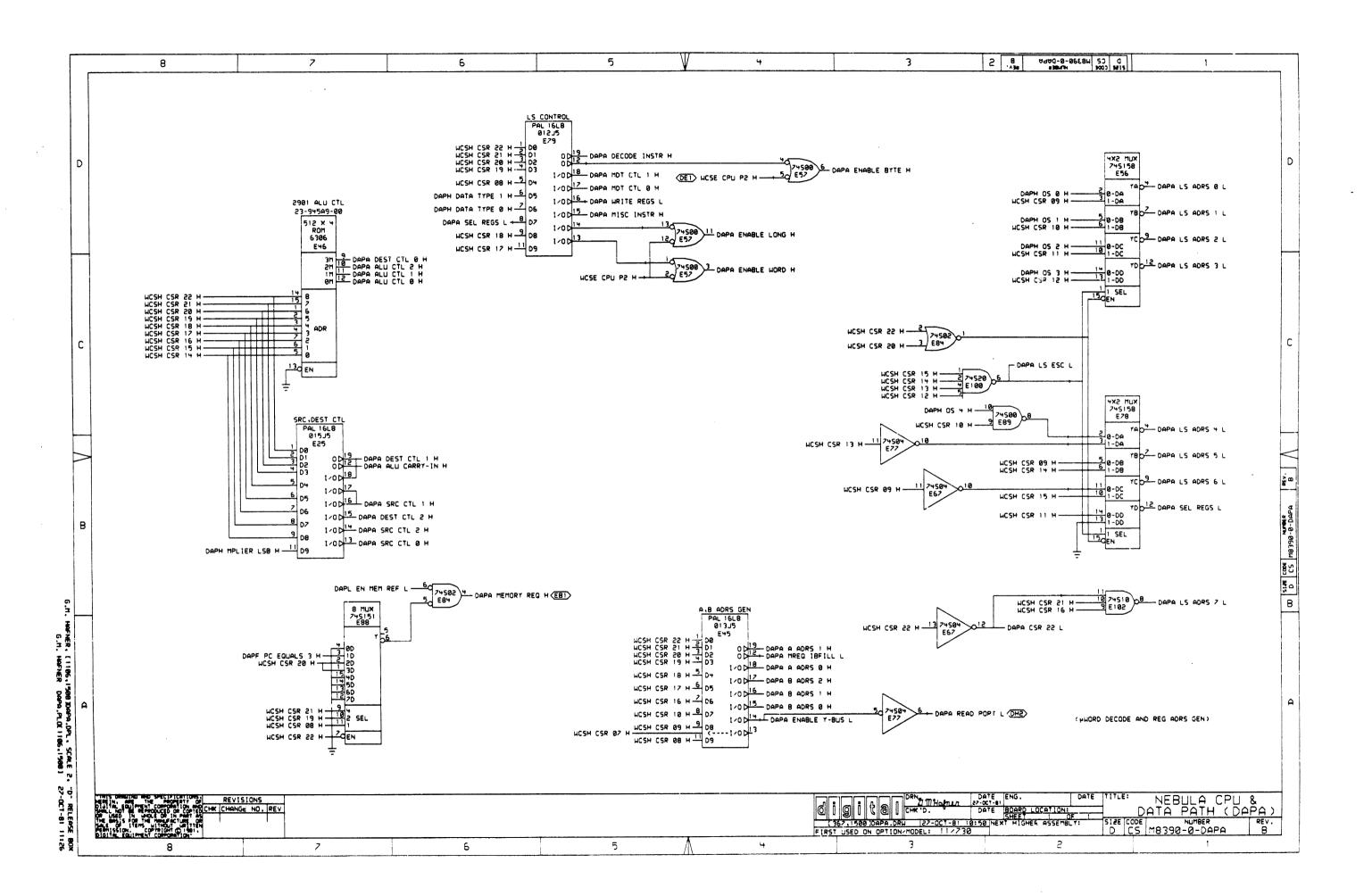
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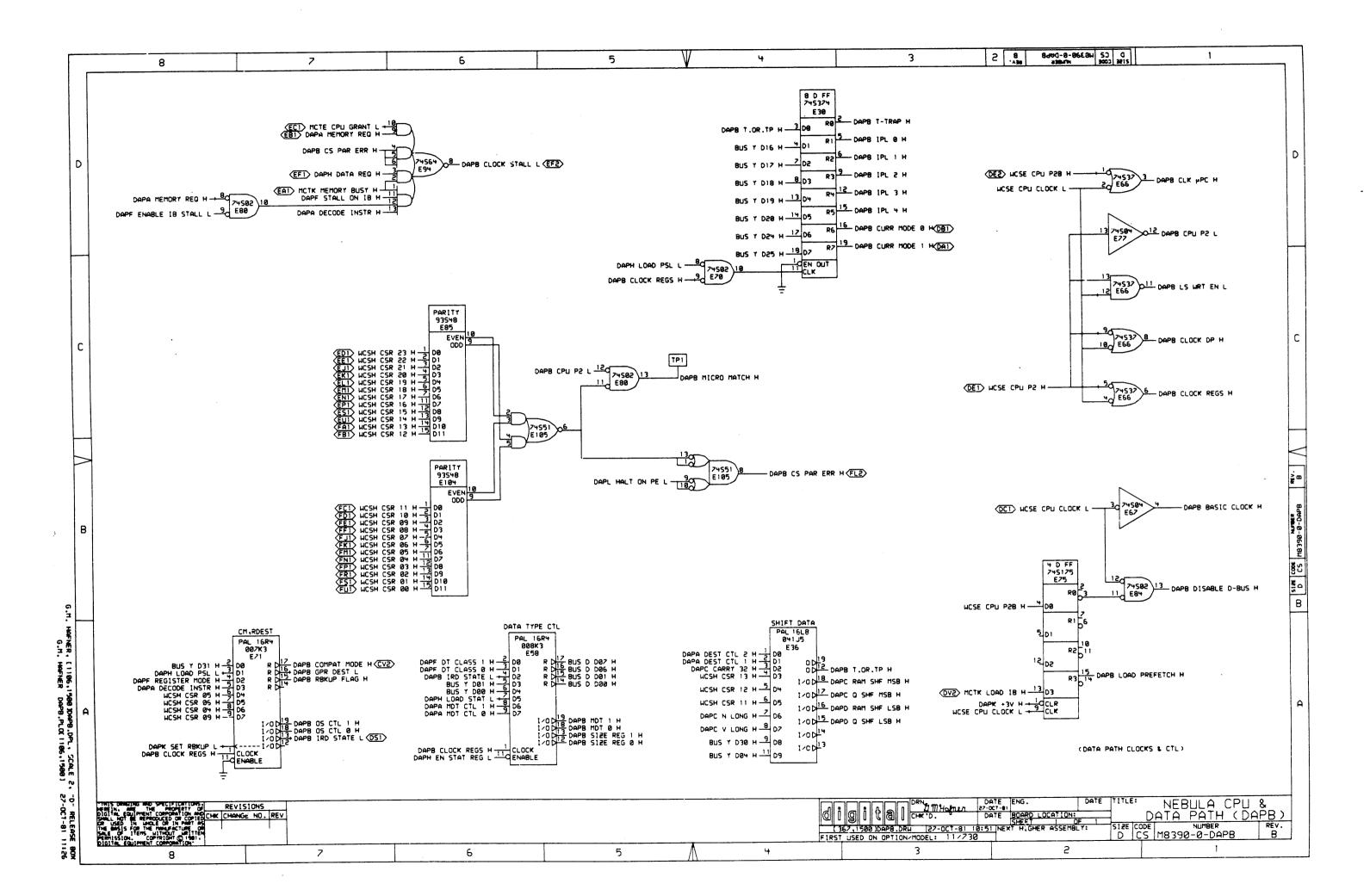
OMATED BY PRTLST.3M(41) E ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION OU STY PER VI	REFERENCE DESIGNATUR
7 27 28 20 20 31 32 33 34 34	1912660-00 1912746-00 1912796-00 1912860-00 1912865-00 1913245-01 1913670-00	745253 MUX 1 OF 4 (DUAL) 2 DEC 74537 NAND GATE-QUAD 2IN 1 74148 EXCODER, PRIORITY, 8 T 1 LS259 LATCH 8BIT 1 LS283 ADDER-4BIT BINARY FU 1 2901A MICROPROCESSOR-4 BIT 8 745373 LATCH 8BIT TRASP TR 745374 FF-D OCTAL TRISTATE 10	E66, E65 E86 E115 E7-E10,E26-E29 E3,E6,E12,E16,E21,E22,E24 E1,E20,E30,E40,E42,E51-E53,E55, CONT E82
5.67.89.0-1.03+1.67.89.0-1.03+5.00.00-1.03+5	1914568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191568-00 191569-00 19156	AM 93548PCGEN/CHECK PARITY, 48 LS245 TRANSCEIVER BUS OCT HE RAM 256X4 TRI-STATE 8 K4-01	E59,E61 E65 E15 E7-E10,E26-E29 E3,E6,E12,E16,E21,E22,E24 E3,E6,E13,E40,E42,E51-E53,E55. CONT E87 E87,E11,E31,E44 E47,E5,E13,E14,E23,E33-E35 E97,E99,E110 E59 E79 E79 E79 E71 E112 E41 E41 E45 E37 E71 E113 E59 E71 E113 E59 E71 E71 E113 E59 E77 E71 E71 E71 E71 E71 E71 E71
I G I T A L	TITLE DAP	SECTION A OF A	SIZE CODE DOCUMENT NUMBER REV K PL M8390-0-DBP B

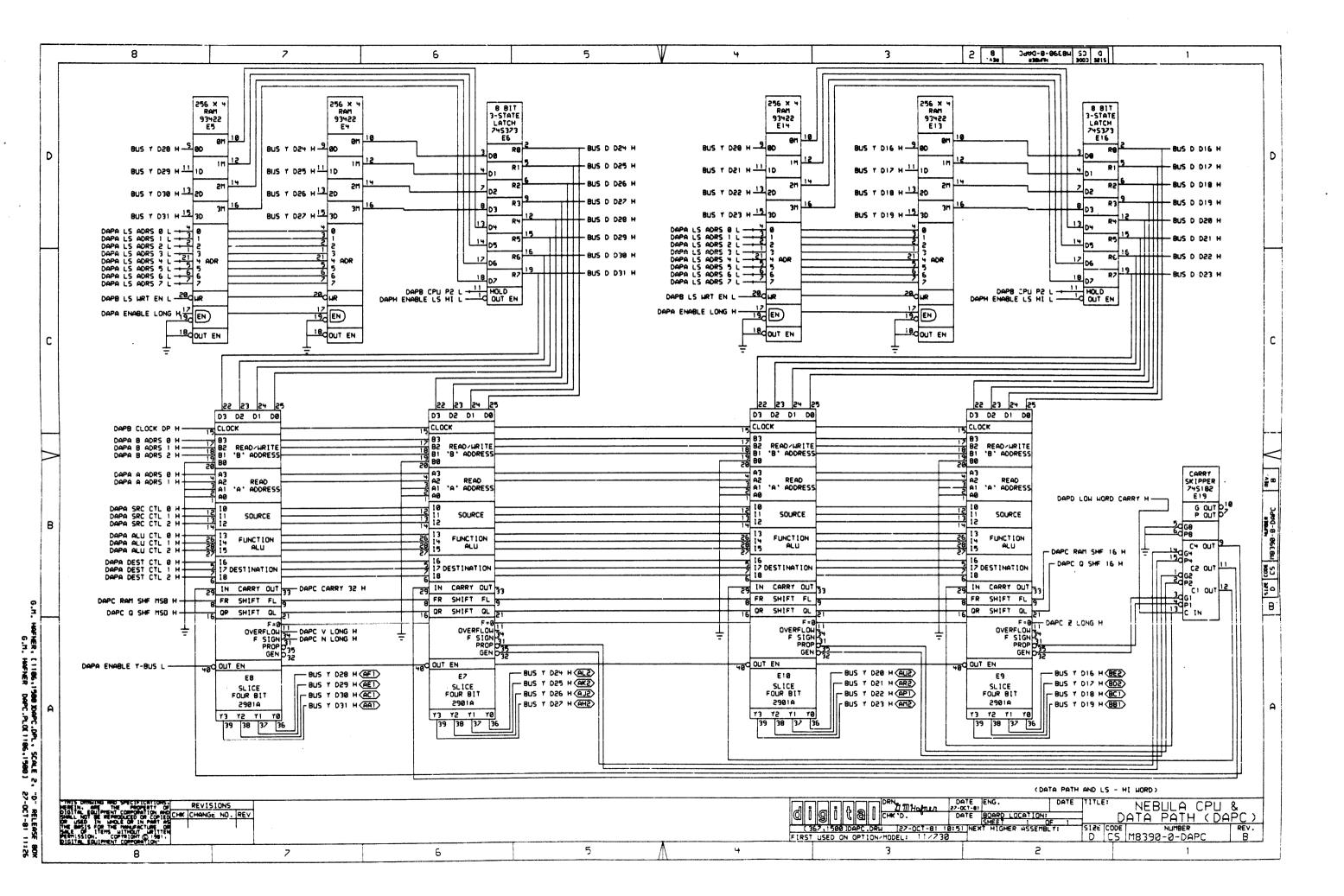
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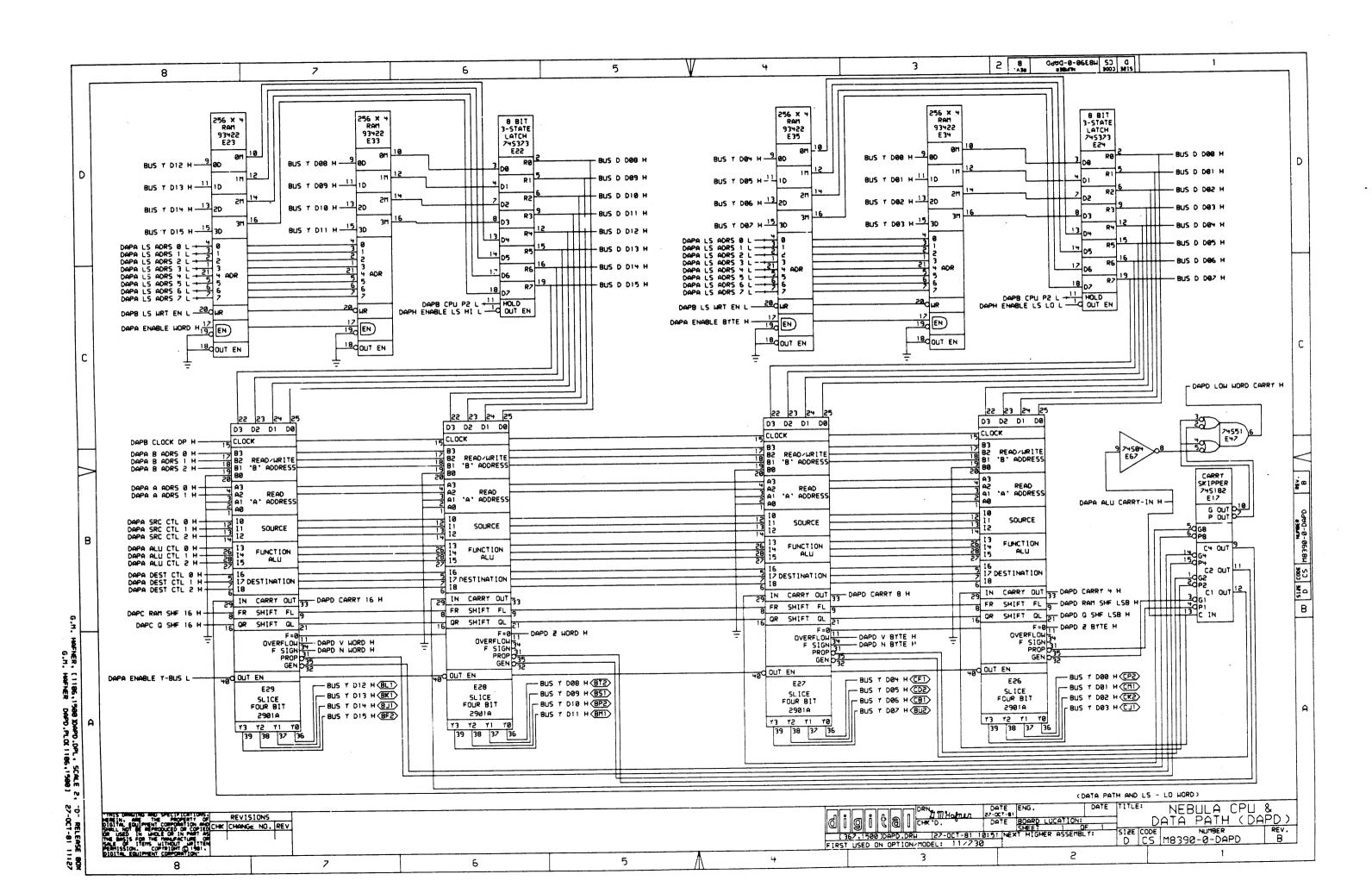


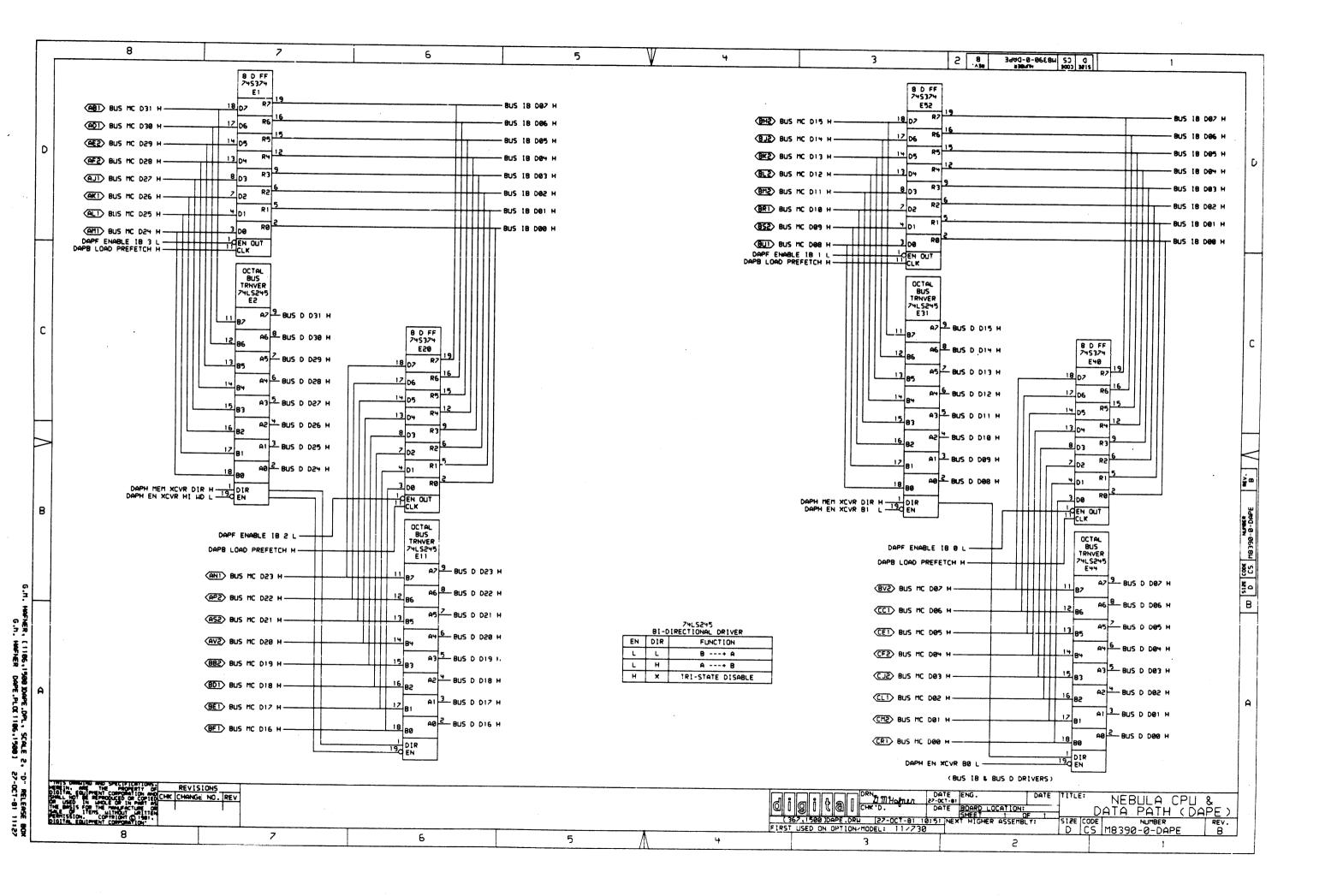


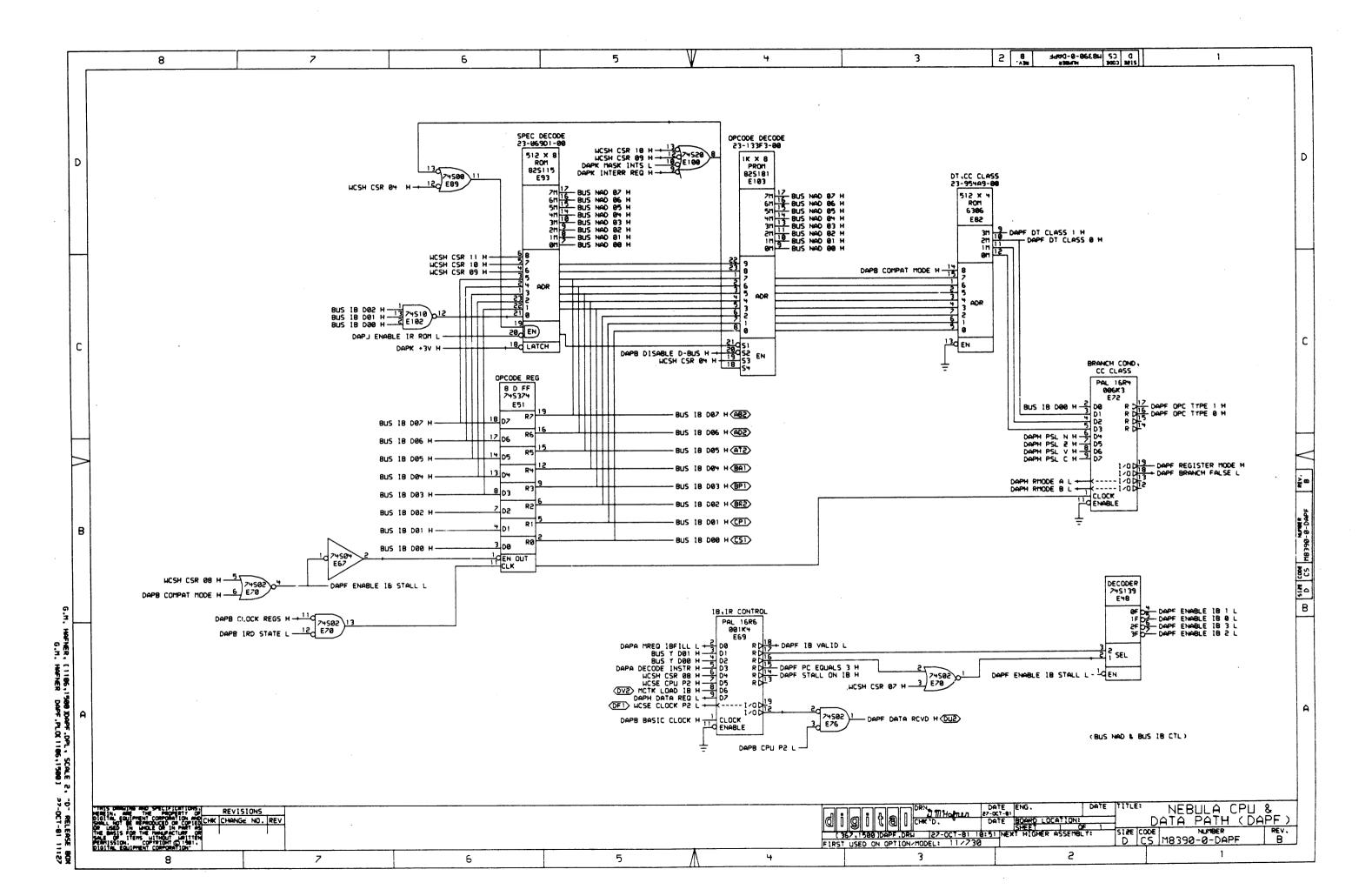


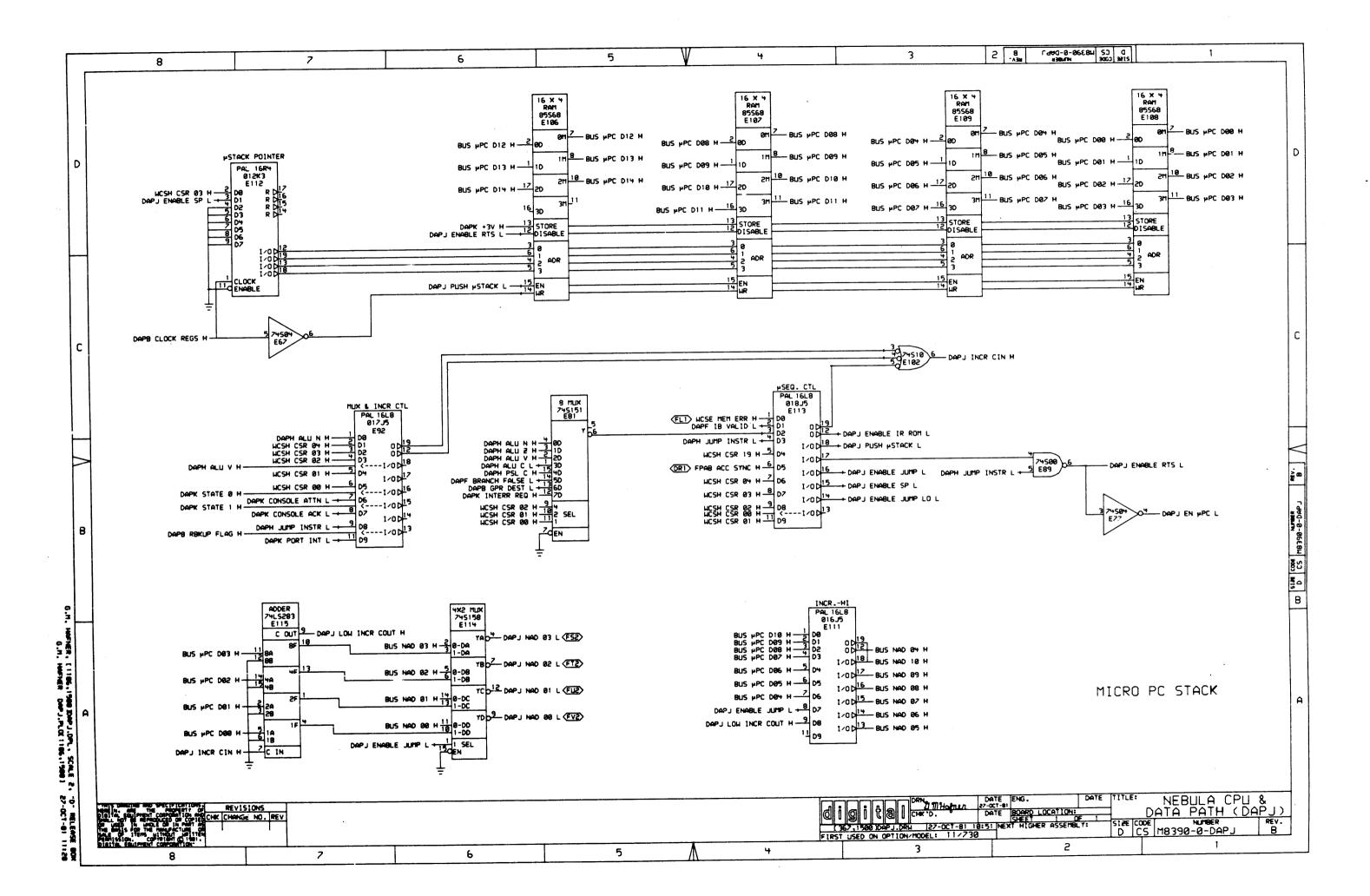


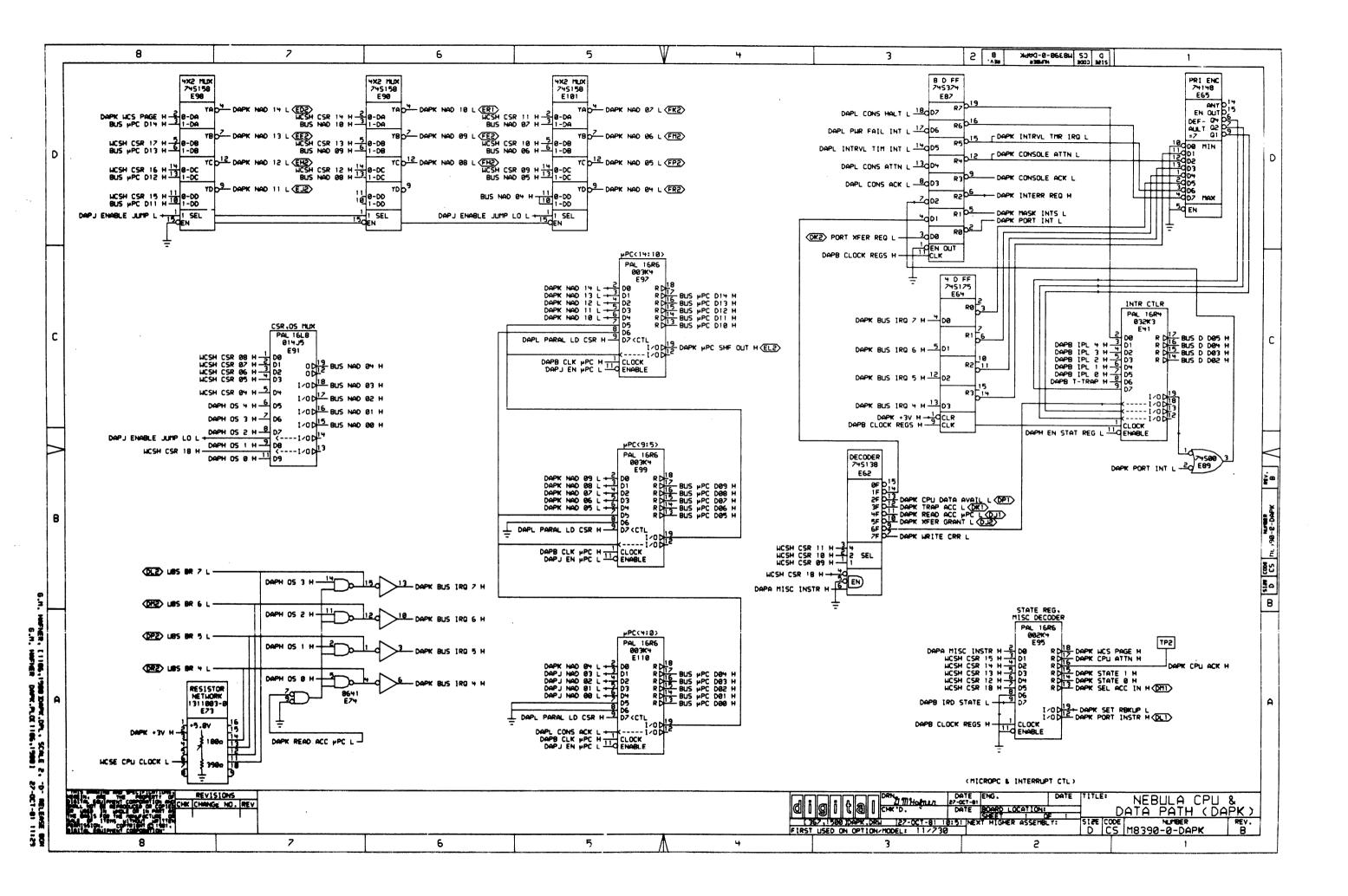


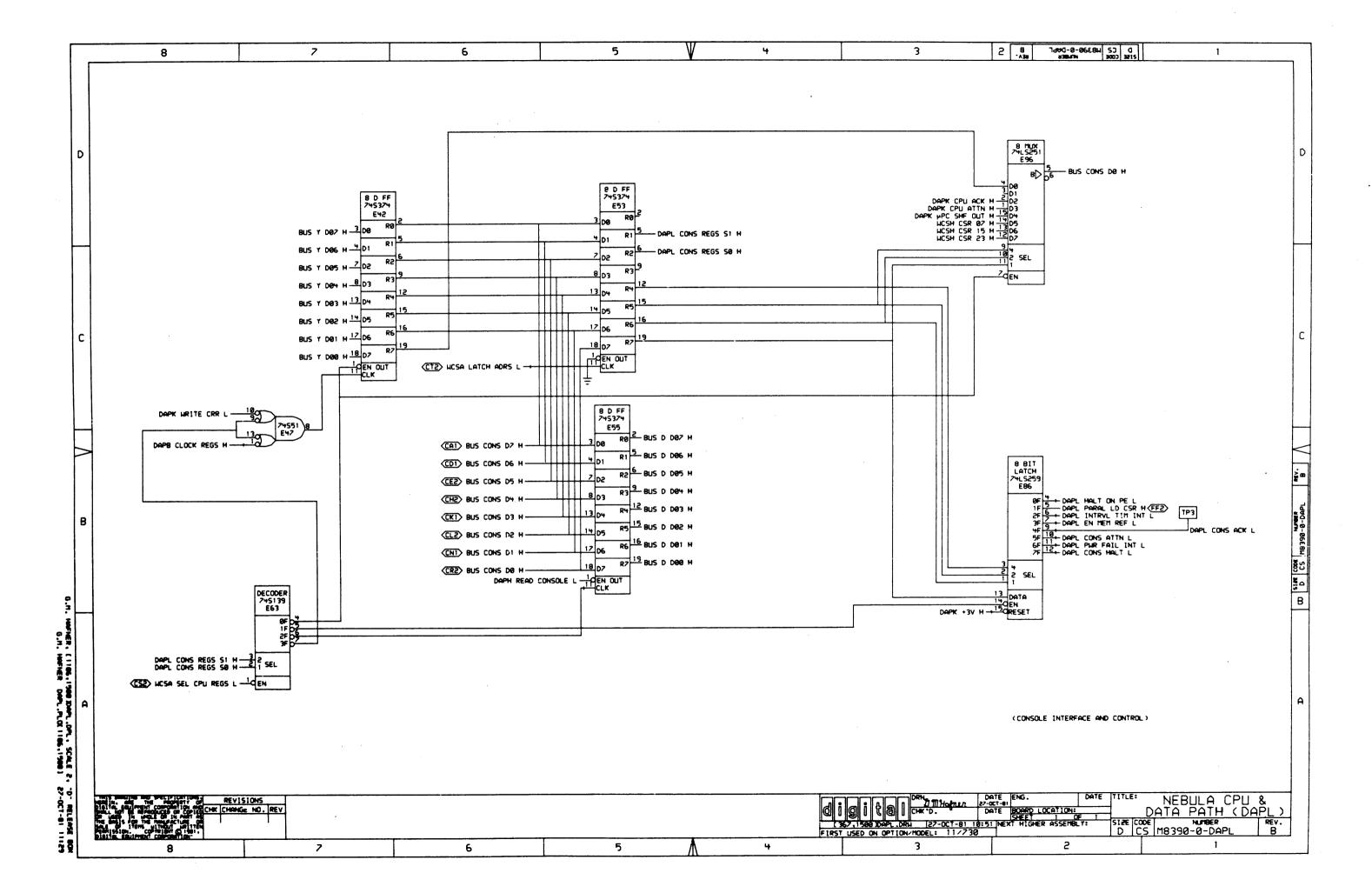


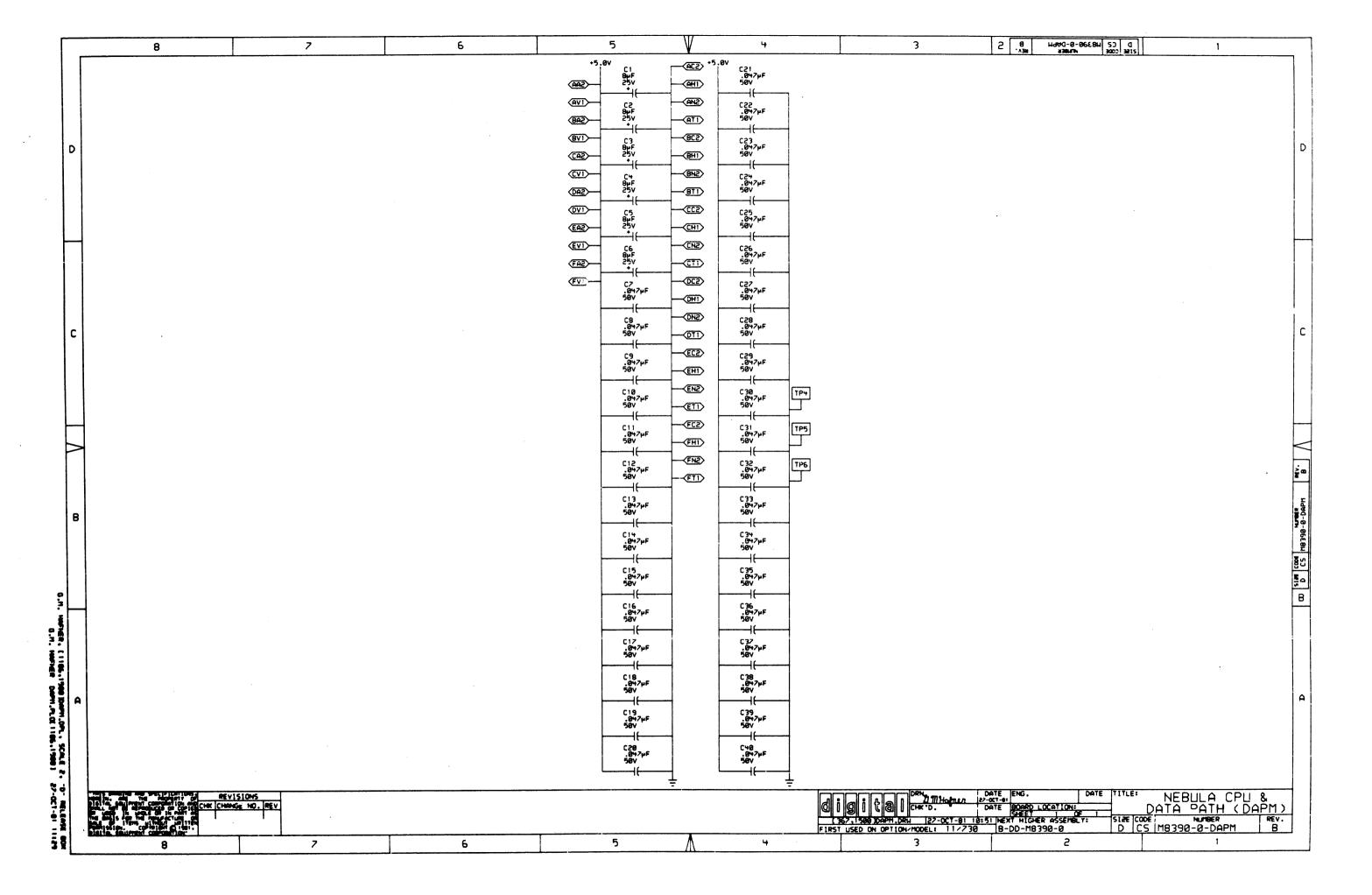












PROGRAM PAL	11) ** 14-SES	P-87 13:05:49	SCALE: 9.500	GUDPØ1.P_0 5	<u> </u>	4	3		2 A B	9-9-668H 79 0000	d mrs	-1	_
	ASSIGNED PIN NUMBER:	cs -18398-8- Da pa : E79/ Local Store Control		ASSIGNED PIN NUMBER	.8 I-CS-H8399-8-DAPA IN: EY5/ A+B ACCRESS GENERATO II		DEVICE T SCHEMATION LOCATION ASSIGNED	PIN NUMBER:	i 167390 8 0apk E91/ CSR ₁ 05 i			•	
	1= CSR.22 2= CSR.21 3= CSR.20 4= CSR.19 5= CSR.08 6= OT.1 7= OT.9	8=/SERE05 9= C.R.18 18= SNO 11= CSR.17 12=/JRT.LSC/7=0> 13=/JRT.LSC(15=0) 14=/JRT.LSC(31=16)	15= MISC. INSTR 16=/LRT .REGS 17= MDT.C9 18= MDT.C1 19= DECODE.INSTR 20= VCC	1= CSR.22 2= CSR.21 3= CSR.20 4= CSR.19 5= CSR.18 6= CSR.17 7= CSR.16	8= CSR.10 9= CSR.09 10= GND 11= CSR.08 12=CFR.00.10F(LL 13= CSR.07 14=/ENABLE.Y-BUS	15= 8.ADRS.8 16= 8.ADRS.1 17= 9.ADRS.2 18= 4.ADRS.8 19= 4.ADRS.1 20= VCC	1* CSR.i 2* CSR.i 3* CSR.i 4* CSR.i 5* CSR.i 6* OS.y 7* OS.3	37 96 95 94 *	8= 05.2 9= 05.1 10= GNO 11= 05.0 12= NC 13= CSR.18 14=/ENGLE	• 1	150 NAD.28 16= NAD.81 17= NAD.82 18= NAD.83 19= NAD.84 28= VCC	•	
	+/SEL.REGS# +/CSR.22#/CSR.18# IFT VCC 1 LRT LSK15 +/SEL.REGS#/CSR. +/SEL.REGS#/CSR. +/SEL.REGS#/CSR. +/SEL.REGS#/CSR. +/SEL.REGS#/CSR.22#/CSR.22#/CSR.18# IFT VCC 1 LRT LSC 21 H-/SEL.REGS#/CSR.18# IFT VCC 1 /HISC.INSH-/CSR.22# +/CSR.23# +/CSR.23# +/CSR.26# +/CSR.15# IFT VCC 1 LRT LREGS#/CBL.REGB#/CBL.REGS#/CBL.REGS#/CBL.REGB#/CBL.R	i-0):=/SEL.REGS#CSR.22#CSR.19# SR.22#CSR.21#CSR.20#CSR.19# S21#/CSR.22#CSR.119#CSR.08 RR.22#CSR.21#CSR.26#/CSR.19# //CSR.17#OT.3:16):=/SEL.REGS#CSR.22#/CSR.19# //CSR.17#OT.3:16):=/SEL.REGS#CSR.22#/CSR.19# //CSR.17#OT.3:16):=/SEL.REGS#CSR.22#CSR.19# //CSR.17#OT.3:16):=/SEL.REGS#CSR.22#/CSR.19# //CSR.22#CSR.21#CSR.20#/CSR.19# //CSR.17#DT.1 ITR:=/CSR.22 //CSR.21#CSR.20#/CSR.21# //CSR.22#CSR.21#CSR.20#/CSR.19 //CSR.22#CSR.21#CSR.20#/CSR.17 //CSR.22#/CSR.21#CSR.20#/CSR.17 //CSR.22#/CSR.21#CSR.20#/CSR.17 //CSR.22#/CSR.21#CSR.20#/CSR.19#DT.1	9 19 19 19 19 19 19 19 19 19 19 19 19 19	#CSR VCC1 ENABLE +/CSi	1.28 1.19 1.18 1.17 1.01=CSR.22=/CSR.07 2.1=/CSR.07 1.20=/CSR.07 1.19=/CSR.27 1.22=/CSR.21=/CSR.20=/CSR.19 1.1=/CSR.03 1.1=/CSR.03 1.22=/CSR.21	∕CSR. 09	IFC E IFC E IFC E	WALE.JUP.LO	2 /NPD .82: =/CSR +/CSI -/CSI -/CSI -/CSI -/CSI -/CSI	.8 .65±/CSR.18 R.95±/CSR.18 R.95±/CSR.18 R.96±/CSR.18 R.96±/CSR.18 R.97±/CSR.18 R.97±/CSR.18			
									-		27-812-5-08 23-813-5-08 23-814-5-08		

R PROGRAM EAL	11) ** 114-SEP-87 13:10:52	SCALE: 9.500	GUDP02.P_0 5	V	4		3	5 A 8-6-CEES	19 d	1	• • •
		•	,		•						•
	•		·	•							
	PART HUMBER: 23-016U5-00	•	PART HUNGER: 23-818J5	i-00	•	PART	NUTBER: 23-919.55-	ee ,			1
·	CEVICE TYPE: PALISLE		DEVICE TYPE: PALISLE	•		DEVIC	E TYPE! PALISLE				4
	SCHEMATIC SHEET #10-CS-H#399-#-DAPJ		SCHEWITC SHEET #10-0	S-118799-8-DAPJ		SCHE	MTIC SHEET 840-CS	- n3790-е- сарн			
	LOCATION/DESCRIPTIONS ELLIV MICRO ADDRESS (193)	PH) INCREMENTER	LOCATION DESCRIPTION	E113 MECRO SEGUEDICER CON	TROL	LOCAT	TON/DESCRIPTIONS	esse a attained.	•		D
	ASSIGNED PIN MUMBER:		ASSIGNED PIN HUMBERI				HED PIN HUMBERI		•		
	1= UPC.10	15= Nob.07 16= Nob.08 17= Nob.09 18= Nob.19. 19= Nob.18.8 20= VCC	1= ERR.SUM 2=/18.VALID 2=/MIX.IN 4=/ULP.INSTR 5= CSR.19 6= STNC 7= CSR.04	0= CSR.03 9= CSR.02 10= GNO 11= CSR.01 12=-CHABLE.IR.ROM 13= CSR.00 14=-EHABLE.JUPPILO	15=/EHRBLE.SP 15=/EHRBLE.JLPP 17=/EHRBLE.LPC 18=/PUSH.USTACK 19=/OR.GUT.2 28= VCC	2= (3= 1 4= (5= 1	ISR.17 ISR.22 ISR.21 ISR.29 IONPAT.HODE ISR.36 ISR.85	9= CSR.19 9= SIZE.REG.1 10= GNO 11= SIZE.REG.0 12=-CATA.REQ 13= CSR.19 14= DT.1	15= COPY.CC 16= ALU.CC.F8 17= ALU.CC.F1 18= DT.8 19=>JUTP.INSTR 20= VCC		
			FA 10 T FA 10				w710xe				
	EGUAT ÉONS!	•	EQUATIONS!	ROM: «JUMP . INSTRUCESR . 1920	700 Atmospher 244		IATIONS:	*/CSR.22=CSR.21=CSR.28=*/C	T 10-000 10		·
	IFT /ENABLE .JUNY 3 /440 /44: HUPC .84 HCARRY .IN +/LPC .84 H/CARRY .IN		+JUMP.INSTRM/ +JUMP.INSTRM/	7058.19#058.03#/058.02#flox 7058.19#058.02#/058.02#flox 7058.19#058.02#/058.01#/058 7058.19#058.03#058.02#058.0	[N .9 6		+/CSR.22=CSR.	21 =CSR.29=/CSR.18=/CSR.17	98.158/USR.18).		
	IFT /ENGBLE.JUITP] /NAD.851 =UPC.85=UPC.891=CAI +/UPC.65=/UPC.69	PORT - IN	*JUST LINSIKE		0=18.4HC10			1.22=CSR.06=/S[2E.REG.1		•	ł
	+/LPC.85%/CARRY.IN IFT /ENABLE.JUMP 1 /NAD.86% = LPC.86%LPC.85%LP +/LPC.86%/LPC.85	C.SY=CARRY.IN	+Jump.[nstr#0 +Jump.[nstr#0	MP.LO:=JMP.[HSTR#CSR.19#/ SR.19#CSR.03#/CSR.02#MM.[SR.19#CSR.02#/CSR.01#/CSR.	4 9 9		+/CSR.22#/CSR	?.21=CSR.20=/CSR.06 ?.21=CSR.20=CSR.06=/CSR.09	SIZ.REG.1		
	+/UPC.05%/UPC.04 +/UPC.06%/CARRY.IN	•		SR.19#CSR.03#CSR.02#CSR.00			IFEVOC) /COPY.CCI+	VCSR.22.1VCSR.21			
	(FC/ENABLE.Jump) /NAD.871=UPC.87=UPC.86=UPC	C.05=LPC.0+=CARRY.IN	+/_LFFINSTR	?:=/ JUMP. INSTR#CSR.04=/CSR. #CSR.04=/CSR.03=CSR.02=/CSR #CSR.04=/CSR.03=/CSR.00=/ER	.99		+/CSR.05				-
	+/UPC .07#/UPC .06 +/UPC .07#/UPC .05 +/UPC .07#/UPC .04		+JUMP.INSTR×C	SR.03×CSR.02×CSR.01×/CSR.	30 ·		+CSR.21 #/CSR.	0: =CSR.22x/CSR.06#CSR.05 .06#CCR.05	•		.
	+/UPC .0/m/CARRY . [N		+/JUTP.INSTR	*CSR.04#/CSR.03#/CSR.02#CSR *CSR.04#/CSR.03#CSR.02#CSR.	.00=nux.In		+CSR.22#CSR.6 +CSR.21#CSR.6	95×/CSR.05×/DT.1×/DT.0			-
	[F(/ENABLE.JUTP]/NAO.08:=UPC.88#UPC.87#UP #CARRY.IN	C.06=UPC.95=UPC.94	(FCVCC) ENABLE.J.	HP:=JUMP.INSTR=/CSR.03=/HL	K.IN		+CSR.22*CSR.6 +CSR.21*CSR.6	95=/CSR 95=0T.1 96=/CSR.05=0T.1			
4	+/UPC .09=/UPC .07 +/UPC .03=/UPC .06		+JUP-INSTR#C	SR.03#/CSR.02#flx.[N SSR.02#/CSR.01#/CSR.00	, !A			: =CSR.22=CSR.06=/CSR.05=/ 95=/CSR.05=/DT.1	07.1		<u> </u>
	+/U-C.03=/U-C.05 +/U-C.63=/U-C.04	•	IFT VCC 3 ENABLE .UF	SR.03#CSR.02#CSR.00#18.VAL				73=2C5R.05=25L2E.REG.1=25	CIPE PER A	•	
1	+/LPC.03=/CARRY.IN	'u	+CSR.03	2.01≈/CSR.98#ERR.SUM			+CSR.21 *CSR.4)5*/5!2E.RCG.1#/5!2E.RCG.6 8.21#CSR.20#/CSR.06#/CSR.6	3		
	[F[/2NASLE . JLTP] /NAO .89: =/UPC .89=/CARRY . [+/UPC .03=/UPC .03 +/UPC .03=/UPC .07	in.	+CSR.00#TUX.1 +/CSR.02#CSR.	IN .			+/CSR.22*/CSF */SIZE.REC	2.21 #CSR .20#CSR .06 #/CSR .05	SEZELREG.1		2. €
	+/UPC .85#/UPC .85 +/UPC .83#/UPC .85		+CSR_82=/CSR.	.01 =CSR .00 01 =CSR .00=STNC			IFEVCC) JUMP. INSTE	R1 =/CSR .22=/CSR .21=/CSR .26	1	•	
	+/UPC.891x4E0.90+ +/UPC.891x4E0.807x4E0.807x4E0.895 +/UPC.891x4E0.891x4E0.807x			nck:=Junp.instr=csr.03=csr. csr.03=csr.02=/csr.01=csr.0							a d
	######################################	r.tn	IFLVCC1 OR.OUT.2: + ARP.INSTR#C + / ARP.INSTR#C + / ARP.INSTR#C + / ARP.INSTR#C + / ARP.INSTR#C + / ARP.INSTR#C	:=/Jump. instructs. @hwcst.03 cs. @secs. @2 cs. @secs. @2 cs. @hwcst. @2 cs. @secs. @secs. @secs. www.secs. @secs. @secs. www.secs. @2 cs. @secs. @secs. @secs. wcs. @secs. @awcs. @secs.	=CSR .02=∠CSR .01 =CSR .00 0 = [8 .vpl [0 0 =SYNC . IN 00	±∕err.sun					12 CO.6 HB350-0-0
	IFT/ENBLE.JUPF=LPC.18] /ARO.18.8:=LPC.89x =LPC.87=LPC.87=CARRY.IN	LPC.89-LPC.87-LPC.86									B
	TILE, TARROWTH, STUDENCY,	·		•							F
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THIS DOWN HE WAS TO SEE THE CONTROL OF THE CONTROL	REVISIONS REVISIONS REV REV		,		₫ į	g i (21		CATE POSTO LOCATIONS	AND PA	PATH ROLL LISTING	MGS REV.
Maria Chimal Co 31	100	٠			L L L L L L L L L L L L L L L L L L L	USED OF OFFICE	3	2		1	

8M 8A(11) ** 14-9	SEP-87 13:17:38	SCALE: 9.500	GUDP03.P_0 5	<u> </u>	4	3	S .*A	0 0 05E8H 79 (J 3215 CCCC H748EK	1
				•	•			•	
PART HURSER! 23-828-5-	3 %		PART NUMBER: 23-021.5-00	• '	•	PART HUMBERS 23-0-1.	75-00		•
DEVICE TYPE: PALISLE			DEVICE TYPE: PALISLE	•		DEVICE TYPES PALIBLE	•		
SCHEMIC SHEET BID-CS-	r-218998-0-DAPN		SCHEMATIC SHEET BID-CS-F	118350-8-DAPH		SCHEMIC SHEET BUD-	CS-118799- 0-0APS		
LOCATION/DESCRIPTIONS &	SHOW REDISTER CONTROL		LOCATION/DESCRIPTION: EV	13/ SIGN EXTEND CONTROL		_OCATION/DESCRIPTION	I E36 SHIFT DATA		
ASSIGNED PIN HUMBERS			ASSIGNED PIN NUMBER:			ASSIGNED PIN HUMBER			
1= CSR.22 2= CSR.21 3= CSR.18 4= CSR.17 5= CSR.16 6=/SEL.REGS 7= DISABL.D-BUS	8= CSR.10 9= CSR.09 10= GHD 11=-LRITE.REGS 12=-LGGD.PSL 13= NC 14=-EHGLE.LS.LD	15=/READ.CONSOLE 16=/EN.STAT.REG 17= 5.0 18= 5.1 19=/READ.REGS 20= VCC	1 = CSR.22 2 = CSR.21 3 = CSR.18 4 = CSR.17 5 = CSR.16 6 = CSR.16 7 = 10T.1	8= MDT.8 9= GATE.DIR 18= GND 11= DISABL.D-8US 12=ZEN.SXT.91 13=ZEN.SXT.HI.HD 15= NC	15=/READ.IN.HENDRY 16=/EN.LS.HE 17=/EN.XCVR.BB 18=/EN.XCVR.B1 19=/EN.XCVR.HI.MD 20= VCC	1= DEST.CTL.2 2= DEST.CTL.1 3= CARRY.32 4= CSR.13 5= CSR.12 6= CSR.11 7= N.LONG	8= V.LONG 9= Y.39 10= GNO 11= Y.0+ 12= Y.OR.TP 13= NC 14= NC	15= 0.54F.LSB 16= RR1.54F.LSB 17= 0.54F.HSB 18= RR1.54F.HSB 19= NC 28= VCC	
7- 513-023		•	12	•		7- N.C.	11- NG		
EQUATIONS:	•		EQUATIONS:			EQUATIONS			
	CSSR.22=CSR.21=CSR.16=4R[TE	.REGS	IFT VCC 1 EN .SXT .B1: =C	CSR.22#SEL.REGS#/DISAGL.	D-BUS	IFT VCC 1 /T.OR.TF	1=/1.30=/1.0 1		
IFT VCC 1 ENABLE .LS.1 +/CSR.22=/CSI	C558.18#C58.89 D:::#C58.22#/5EL.RE85#/DISA8 !.221#/DISA8L.D-BUS		+/CSR.22=CSR.21 +/CSR.22=CSR.21	1#CSR.18#CSR.17#SEL.REGS 1#CSR.18#/CSR.17#/CSR.16 1#/CSR.18#/CSR.17#/HDT.0	=/DISABL.D-BUS =/DISABL.D-BUS	+/0	ST.CTL.13 /0.SHF.LS8:: SR.13=/CSR.12=CSR.11= SR.13=CSR.12	v.CSR13#/CSR12#/CSR11#/QSH /RAHSHFHS8	F #158
+/CSR.22=CSR	.21 **/SEL.REGS*CSR.17#/DISAB		+/CSR.22*CSR.21	D:=CSR.22±SEL.REGS#/DISA 1±CSR.18*CSR.17*SEL.REGS	=/DISABL.D-BUS	+CS	R.13=/CSR.11		
	.E:=#/CSR.22#CSR.21#CSR.16#5 SR:::17#/DISABL.D-BUS	EL.REGS=/CSR.10	+/CSR.22*CSR.21	1#CSR.18#/CSR.17#/CSR.16 1#/CSR.18#/CSR.17#/110T.1	×∕DISA8L.D-8US		PRAM . SHF . MSB	84 =/CSR .13=/CSR .12=/CSR .11	
IFT VCC 1 EN.STAT.RE	:=CCSR.22*SEL.REGS*/DISABL. 21**SEL.REGS*/DISABL.D-BUS*	D-BUSECSR.10=/CSR.09 CSR.10	IFT VCC 1 READ . IN . MEHO	ORY: =/GATE.DIR		+/0	SR.13=CSR.11=/Q.SHF.HS SR.13=CSR.12=/CSR.11 R.13	bis .	
=/CSR.09=	CSRR.16#CSR.17		+/CSR.22*CSR.21	SR.22=/SEL.REGS=/DISABL. 1=CSR.17=/SEL.REGS=/DISA	D-BUS BL.D-BUS			=/CSR.13=/CSR.12=/CSR.11	
IFT.VCC1 /S.8: =CSR. +CSR.22=CSR.	2=/ <c5r.09< td=""><td></td><td>+/CSR.22*/CSR.2</td><td>21=/DISABL.D-BUS</td><td> · · · -</td><td>* +/C</td><td>∕Q.SHF.LS3 SR.13±CSR.11±⁄RAM.SHF.</td><td></td><td></td></c5r.09<>		+/CSR.22*/CSR.2	21=/DISABL.D-BUS	· · · -	* +/C	∕Q.SHF.LS3 SR.13±CSR.11±⁄RAM.SHF.		
+/CSR.22#CSR +/CSR.22#CSR +/CSR.22#CSR	.21 **CSR.17#/CSR.10#CSR.09 .21 **CSR.17#CSR.10#/CSR.09 .21 ***/CSR.18#/CSR.10#CSR.09		+/CSR.22#CSR.21	=/CSR.22=CSR.21=/CSR.18= 1=/CSR.18=CSR.17=GATE.DI 21=GATE.DIR=/DISA8L.D-BU	R=/DISABL.D-BUS	+/C +CS	SR.13=CSR.12=/CSR.11 R.13=/CSR.12=/RAM.SHF. R.13=/CSR.11=/RAM.SHF.	LS8	
IFT VCC 1 /5.1:=CSR.	.21 >#/CSR.18#CSR.18#/CSR.09 :27#CSR.18#CSR.09 .21 >#CSR.17#CSR.18#CSR.09		+/CSR.22*CSR.21	*/CSR.22*CSR.21*/CSR.18*. 1*/CSR.18*CSR.17*GATE.DII 21*GATE.DIR*/DISABL.D-BU	/CSR.17#/DISAGL.D-BUS#101.8 R#/DISAGL.D-BUS	X	EST.CTL.:1] /RAH.SHF.HS /RAH.SHF.LS3 SR.13=/CSR.12=CSR.11=/	81 =/CSR.13=/CSR.12=/CSR.11	
+/CSR.22=CSR	.21=CSR.17=CSR.16 .21=/ <csr.18=csr.10=csr.09< td=""><td>•</td><td></td><td>#0:=/CSR.22#CSR.21#/CSR.</td><td></td><td>+/0</td><td>SR.13#/CSR.12#/N.LONG R.13#/CSR.12#/N.LONG R.13#/CSR.12#/CSR.11#/</td><td></td><td></td></csr.18=csr.10=csr.09<>	•		#0:=/CSR.22#CSR.21#/CSR.		+/0	SR.13#/CSR.12#/N.LONG R.13#/CSR.12#/N.LONG R.13#/CSR.12#/CSR.11#/		
+/CSR.22#CSR	.21**<:CSR.18*CSR.16		▼/DISABL.D-E	BUS#MOT.1 21#/CSR.18#CSR.17#GATE.D		+CS	R.13=/CSR.12=/CSR.11=/C R.13=/CSR.12=CSR.11=/C	LONG=V.LONG	
#CSR.16#S	*/CSSR.22#CSR.21#CSR.17#CSR. EPEEGS		×/DISA8L.D-E	BUS .21#GATE.DIR#/DISABL.D-B	4	+CS	R.13=CSR.12		
+/CSR.22±CSR +CSR.22±SEL.	.2:≔CSR.18#/CSR.17#/DISA9L.1 ≿G55#/DISA8L.D-BUS#/CSR.10	D-BUS							
+CSR .22#5EL. +/CSR .22#CSR	REGED#/DISABL.D-BUS#CSR.09 .21%ESR.17#/CSR.16#/DISABL.0		<i>-</i>						
#/CSR.10= +/CSR.22#CSR	.2! =CSR.17=/CSR.16=/DISABL.0)-Bus							
#C\$R.09#\$	A. REDS			•		•			•
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0-0-06883-0-0 393 390 2 .5 114-SEP-87 13:23:24 3 PROGRAM 2A(11) ** SCALE: 9.500 GUDP04.P_0 5 1 PART NUMBER: 23-009K3-08 PART HUNGER: 23-927K3-00 PART HUMBER: 23-206K3-99 DEVICE TYPE: PALIFRY DEVICE TYPE: PALIGRY DEVICE TYPE! PALIERY SCHEMATIC SHEET #10-CS-M#798-8-DAPS SCHEMATIC SHEET #:0-CS-M9390-6-DAP9 SCHEMATIC SHEET #:0-CS-M8398-8-DAPF LOCATION/DESCRIPTIONS EZI/ 1-STREAM DATA PROCESSING A-DEST. LOCATION DESCRIPTIONS ESS DATA TYPE CONTROL LOCATION/DESCRIPTION: E72/ BRANCH COND. +CC ASSIGNED PIN NUMBER: ASSIGNED PIN NUMBERS ASSIGNED PIN NUMBER: 1= CLX.REGS 2= DT.CLASS.1 3= DT.CLASS.8 4=/IRO.STATE , 5= Y.81 6= Y.00 7=/LOAD.STAT 8= MDT.CTL.1 9= MDT.CTL.0 10= GND 11= EN.STAT.REG 12= SIZE.REG.0 13= SIZE.REG.1 14= D.00 8= CSR.87 9= CSR.89 18= GND 11= REG.OUT.EN 12=/SET.RBKUP 13=/IRD.STATE 14=/CH.IRD 15= RBKUP.FLAG 16=/GPR.DEST 17= COMPAT.MODE 18= 05.CTL.0 19= 05.CTL.1 26= VCC 15= 0.81 16= 0.86 17= 0.87 18= MDT.8: 19= MDT.1 28= VCC 8= PSL.V 9= PS_.C 10= GNO 11= RES_DUT.EN 12=/RTJOE.B 13=/RTJOE.A 14=/PRETEST 15= 18.0.SAVE 16= OPC.TYPE.0 17= OPC.TYPE.1 18= BR.FALSE 19= REGISTER.HODE 20= VCC 1 = REGISTER.CLX 1 = REGISTER.CLOCK 1= REGISTER.ITLK 2= 1.31 3=/LD.PSL 4= R.MODE 5= DELODE.INSTR 6= CSR.05 7= CSR.05 2= 18.8 3= DT.CLASS.8 4= CC.CLASS.1 5= CC.CLASS.8 6= PSL.N 7= PSL.2 EQUATIONS: EQUATIONS EQUATIONS: IFCVCC1 /OS.CTL.1:=DECODE.INSTR#CSR.86#/COFFAT.HODE +DECODE.INSTR#CSR.86#/CSR.86 +CH.IRD#/DECODE.INSTR PRETEST: =/CC.CLASS.1=PSL.2 -/DT.CLASS.0=CC.CLASS.0=PSL.C +DT.CLASS.0=/CC.CLASS.0=PSL.N +/DT.CLASS.0=CC.CLASS.1=/CC.CLASS.0=PSL.V +DT.CLASS.0=CC.CLASS.0=/SL.N=/PSL.V +DT.CLASS.0=CC.CLASS.0=/PSL.N=/PSL.V IFT VCC1 /SIZE.RE3.8:=/0.20 [F[VCC] /S[2E.REG.1:=/0.81 /D.88: = IRD.STATE #/OT.CLASS.8 IF[VCC] /OS.CTL.9: -DECODE.INSTR=CSR.96 +LOAD.STATE/1.20 +/IRD.STATE/LOAD.STATE/0.00 /COMPAT.HODE: =LD.PSL=/Y.31 +/LD.PSL=/COMPAT.HODE /18.8.SAVE1=/18.8 /D.811=!RD.STATE#/DT.CLASS.1 +LOAD.STATE#/T.81 +/IRD.STATE#/LOAD.STAT#/D.81 GPR.DEST: =DECODE.INSTR=CSR.05=R.MODE DECODE.INSTR=GPR.DEST DSR.05=GPR.DEST /OPC.TYPE.0:=/CC.CLASS.8 /OPC.TYPE.1:=/CC.CLASS.1 /0.96:=/10T.CTL.1=/10T.CTL.9 +10T.CTL.1=10T.CTL.0=/0.96 /RBKUP.FLAG: = !RD.STATE +/SET.RBKUP=/REKUP.FLAG IFT VCC 1 /BR .FALSE: =/18.0 .SAVE=PRETEST +18.0 .SAVE=/PRETEST /D.87:=/101.CTL.1 +101.CTL.1=101.CTL.0=/0.87 CH. IRD: =DECODE. INSTR=CSR.89WCSR.84WCGFFAT.HODE IFT VCC 1 /REGISTER . MODE: =/RMODE .A [F[VCC] /HOT.9:=/D.95 IFCVCC1 IRD.STATE: =DECODE.INSTR=CSR.99=CSR.84 IFEVCC) /MOT.11=/0.87 23-006K3-00 23-007K3-00 23-009K3-00 DATA PATH ROM ORY THOUSEN DATE SAND LOCATION:

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FIRST USED ON OPTION MODEL: 11/730 19-00-18393-6-0 AND PAL LISTINGS SIZE CODE HUMBER D GL M8390-0-0 REV. 2 3 5 4 7 6 8

	V 443 WW 144 CEE	2-87 13:27:25	SCALE: 80.500	GUDP85.P_0 5	V	4	3	2 8 8-9-9688	1 P G LA	1
PROGRAM SE	(()) ** 14-5EF	7-87 13:27:23	SCALE: U. 300	0001 83.1 20			•		. •	
							0447 HARCEL MAIL			
	PART NUMBER: 23-818K3-	00	•	PART NUMBER: 23-911 DEVICE TYPE: PAL16			PART HUBBER: 23-8121 DEVICE TYPE: PALIGR			
	DEVICE TYPE: PALIERY SCHEMATIC SHEET #:0-CS	5-1183398-8-09PH	•	SCHEMATIC SHEET BIG	D-CS-H3398-0-DAPH		SCHEMITIC SHEET #10			D
		E64/ OS EVEN NUMBERED BITT	•	LOCATION/DESCRIPTION ASSIGNED PIN NUMBER	ONE ENSO OS GOO NEMBERED BITS		ASSIGNED PIN NUMBER	HI E112/ U STACK POENTER CO I	MPROL	
	ASSIGNED PIN NUMBER:	8= Y.2	15= 05.2	1= CLK.REBS 2= 18.7	8= ¥.63 9= Y.81	15= 05.3 15= 05.5	1= CLK.REGS 2= CSR.3	8= HC 9= PRESET	15=/SP.1 16=/SP.2	
	2= 18.6 3= 18.4 4= 18.2	9= Y.0 10= GNO 11= RE3.OUT.EN	16= 05.4 17= 05.6 18=/RMODE.8	3= 18.5 4= [8.3	10= GND 11= REG.OUT.EN 12= OS.CTL.0	17= 05.7 18=/RHODE_A 19=/LDAD_Y.TO_OS	3=/B\ABLE.5P 4= NC 5= NC	18= GND 11= REG_OUT_DN 12=/ADRS_8	17=/SP.3 18=/ADRS.2 19=/ADRS.3	
	5= [8.9 6= Y.6 7= Y.4	12= 05.CTL.0 13= 05.CTL.1 14= 05.0	19=/L0AD.Y.TO.05 29= VCC	5= [8.1 6= Y.07 7= Y.05	13= 05.CTL.1 14= 05.1	20= VCC	6= NC 7= NC	13=/ADRS-1 14=/SP-8	28= VCC	
1		·				•	EQUATIONS			
	EQUATIONS: IFCVCC1 RMODE.8:=	05.CTL.1=/I8.4		EQUATIONS: IFE VCC 1 RHODE .	A:=05.CR.1=/19.5=/18.3 1=/18.7=/18.5		ACB 1 PC	=CSR.3=/SP.1=SP.8 P.8		
	+/05.CTL.1=16	8.6=18.+ -//S.CTI		/05.71 =/05.CTL	.1=/05.CTL.0=/18.7 .1=05.CTL.0=/05.5		IFCVCC1 ADRS.1:	=57.1=/57.8 =/638.3=/57.1=/57.8		·
·	+/05.CTL.1=01	S.CTL.0#/05.Y S.CTL.0#/18.6 .CTL.0#/LOAD.Y.TO.05#/05.6		+CS.CTL.1 +CS.CTL.1	#205.CTL.0#/IB.7 #05.CTL.0#/LOAD.Y.TO.05#/05.7 10.05#/Y.07	•	+5₽.1≖⁄			
	+LOAD.Y.TG.G	S=/Y.6 /CS.CTL.0=/IB.4		/05.5t ±/05.CTL	1x/05.CTL.0x/05.3		+ENASLE.S +/ENASLE.	mcsr.3m/sp.1m/sp.0m/preset Pm/csr.3msp.1m/sp.0m/prese spmsp.0m/preset_	r	
	**************************************	S.CTL.0#/05.2 S.CTL.0#/18.4 .CTL.0#/L040.Y.T0.05#/05.4		+CS.CTL.1 +CS.CTL.1	#/05.CTL.0*/IB.5 #05.CTL.0#/LDAD.Y.TO.05#/05.5 TO.05#/Y.05		+/CSR.3×5	P.1=5P.8=/PRESET P.1=5P.8=/PRESET	· -	
	+LOAD.Y.TG.G *1.172.05\=:\$.60\	S#/1.4 /0S.CTL.0#/18.2		ANG STEANG CTI			+ENABLE.S +/ENABLE.	!#/CSR.3#/SP.1#/SP.0#/PRESET !P#CSR.3#/SP.1#SP.0#/PRESET .SP#SP.1#/PRESET	•	
	+/05.CTL.1=/ +05.CTL.1=/0 +05.CTL.1=05	s.ctl.0#/05. 0 s.ctl.0#/18.2 .ctl.0#/load.y.to.05 #/05.2	!	+05.CTL.1 +05.CTL.1	1=/05.CTL.0 1=/L0AD.Y.T0.0S=/05.3 10.0S=/1.03		+/CSR.3=9	.1=SP.0=/PRESET SP.1=/SP.0=/PRESET		
	+L0AD.Y.T0.0	S#/1.2 ///S.CTL.0#/18.0		/05.1: =/05.CTL	.1#20S.CTL.0#218.1 .1#9S.CTL.0#218.7		+ENABLE.9 +SP.2=SP.	!#CSR.3#/5P.3#5P.1#/5P.0#/P SP#/CSR.3#5P.3#/5P.1#/5P.0# .0#/PRESET	PRESET	
	+/05.CTL.1#0	S.CTL.0#/18.6 S.CTL.0#/18.0 .CTL.0#/LOAD.Y.TO.05#/05.0	1	+C5.CTL.1 +C5.CTL.1	1 = 205.CTL.0 = 218.1 1 = 205.CTL.0 = 22.1 1 = 205.CTL.0 = 22.1 10.25 = 22.1	• .	+/SP.3×SF +/ENABLE	.2#/SP.1#/PRESET P.2#SP.1#/PRESET SP#SP.2#/PRESET		_
	+LOAD.Y.TO.O	/S=/1.8		*20.0011			+/CSR.3×5	SP.3#SP.2#/PRESET SP.3#SP.2#/PRESET	·	.kgv.
							+ENABLE.9 +SP.3=SP	Partsp.garsp.2arsp.1arsp.0a Spatsp.3asp.2asp.1arsp.0ar/P .0ar/Pesset	RESET	
			•				+52.3=52 +/ENABLE	.2#/SP.1#/PRESET .2#SP.1#/PRESET .SP#SP.3#/PRESET		9
							+/CSR.3×	3.3×SP.2×PRESET SP.3×SP.2×PRESET	•	
							+CSR.3 +SP.3=	5P.2		3000 L
						•	#5. 92+ #5. 02+	35-10 59-1 1=/CSR-39/59-29/59-11/59-0		5
							+CSR.3 +CSR.3 +SP.3= +SP.3=	*5P.3 ∕5P.2	•	-
							+25.3x	\$P.1		
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									23-012K3- 03 23-012K3- 03 23-012K3- 03	
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ogram 2 rl	11) ** 14	7-87 13:31:49	SCALE: 80.500	GUDP25.P 0 5	V	Ly	3	2 . 8 8-8-66EE	1 79 d 2002 12015	1
					·			•		•
	PART HUMBER: 23-6"3X3- DEVICE TYPE: PALISAN- SCHEMATIC SHEET BID-CS LOCATION/DESCRIPTION: ASSIGNED PIN HUMBER:	5-78398-8-0APH		PART HUMBER: 23-014K3- DEVICE TYPE! PALIGRY SCHEMATEC SHEET 8:0-CS LOCATION-DESCRIPTIONS ASSIGNED PIN NUMBER:	i-ne398-e-daph		PART NUMBER: 23-019 DEVICE TYPE: PALISA SCHEMATIC SHEET 8:0 LOCATION-DESCRIPTIO ASSIGNED PIN NUMBER	Pr -CS-18799-0-DAPH NI ESSIV PSL CC		
	1= CLK.REGS 2= N.LONG 3= N.LONG 4= N.BYTE 5= Y.63' 6= 2.LONG 7= 2.MORD	8= 2.3YTE 9= 7.82 19= GND 11= REG.OUT.EN 12= ALU.CC.F1 13= ALU.CC.F8 14= NC	15= MPLIER.LS8 16= ALU.2 17= ALU.N 18=/LOAD.Y-BUS 19= G.SHF.LS8 20= VCC	1 = RESISTER.CLOCK 2 = V.LC-VG 3 = V.LC-RD 4 = V.SITE 5 = V.21 6 = C.32 7 = C.VE	8= C.8 9= T.80 18= GND 11= REG.OUT.EN 12= ALU.CC.F1 13= ALU.CC.F0 11= NOT.ALU.C	15=/HMLF.CARRY 16= MLU.C 17= MLU.Y 18=/LOAD.Y-BUS 19= C.Y 20= YCC	1= CLK.REGS 2= ALU.N 3= ALU.Z N= ALU.Y 5= ALU.Y 6= OPC.TYPE.1 Z= OPC.TYPE.0	8= COPY.CC 9= Y.83 10= G40 11= REG.OUT.EN 12= Y.82 13= Y.01 14= PSL.C	15= PSL.V 16= PSL.Z 17= PSL.N 19= Y.00 19=/L000.PSL.CC 20= VCC	·.
	+/ALU.CC.F1 +ALU.CC.F1 +/ALU.CC.F8 +ALU.CC.F1	1 m/LOAD. Y-BUSM/2.8YTE 1 malu.CC.FGm/LOAD. Y-BUSM/ M/ALU.CC.FGm/LOAD. Y-BUSM/ BM/LOAD. Y-BUSM/2.8YTE M/ALU.CC.FGm/LOAD. Y-BUSM/2	ELLONG ELLONG	+RLU.CC.F1	C.FIRALU.CC.F8RA.COO.Y-E IRALU.CC.F8RA.COO.Y-BUSE RALU.CC.F8RA.COO.Y-BUSE RALU.CC.F8RA.COO.Y-BUSE BAY.CO	. 32	+/LOAD.F +/LOAD.F +/LOAD.F	L.CC=/7.83 SL.CC=/CC=Y.CC=/PSL.C SL.CC=CCPY.CC=/OPC.TYPE.1=/ SL.CC=CCPY.CC=/CPC.TYPE.1=/0 SL.CC=/CCPY.CC=/CPC.TYPE.1=/CP SL.CC=/CCPY.CC=/CPC.TYPE.1=/CP	PC.TYPE.0#ALU.C	
	+ALU.CC.F1s +LOAD.Y-BUS /ALU.NS=/ALU.CC.F1 +/ALU.CC.F1s	#ALLI.CC.F8#/L0AD.Y-BUS#/AL 5#/Y.82 1#/ALLI.CC.F8#/L0AD.Y-BUS#/ #ALLI.CC.F8#/L0AD.Y-BUS#/ #/ALLI.CC.F8#/L0AD.Y-BUS#/A #ALLI.CC.F8#/L0AD.Y-BUS#/A	.u.eyte (.uord) (.long)	/ALU.CC.F1 -/ALU.CC.F1 +/ALU.CC.F1 +ALU.CC.F1 +LGAO_T-BL -/ALU.CC.F1 +/ALU.CC.F1	#ZALU.CC.FG#ZLORO.Y-8US#Z (1 #ALU.CC.FG#ZLORO.Y-8US#Z #ZALU.CC.FG#ZLORO.Y-8US#Z #ALU.CC.FG#ZLORO.Y-8US#Z	C.12 LU.C V.BYTE V.LURD V.LURD	+/l040.F +/l040.F -/l040.F -/l040.F +/l040.F -/l040.F +/l040.F	SCC#COPT.CC#PSY SCC#COPT.CC#PS.IY SCC#CPT.CC#OPC.TYPE.1 L.CC#YT.82 SCC#COPT.CC#PSZ SCC#COPT.CC#PSZ L.CC#YT.93 SCC#COPT.CC#PSN SCC#COPT.CC#PSN		
							+/L040.P	SL.CC=COPY.CC=COPC.TYPE.1=/A	אית. אימא	
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THE PRO SPECIFICATION OF THE PROPERTY OF THE P	PEVISIONS PEVISIONS PEVISIONS PEVISIONS PEVISIONS PEVISIONS					d i g	CRN 1736/nen CRN 1736/nen CRN 1736/nen CRN 1736/nen CRN 1736/nen CRN 1736/nen CRN 1736/nen CRN 1736/nen	11-23-61	E TITLES DATA AND POLICE SIZE CODE D GL M8390-6	PATH ROM L LISTING Under Tre
WILLIAM CLERCHATION	:	7.				IF IKST USED	on or resembles 11//30	リコーレいーには ジゾーピーリ	יים דער דוום איים דעו	<u>, υ </u>

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8	7	6	5 V	4	3 2 .v e-e-	-05-694 70 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. :
					•		
1	NUTBER: 23-032K3-04 CE TYPE: PALIGRY		PART NUMBER: 23-015,5-03 DEVICE: TYPE: PALIGL8		PART NLMBER: 23-017J5-06 DEVICE TYPE: PAL16L8		
i	MATIC SHEET #= D-CS-N8390-0-DAPK	•	SCHEMATIC SHEET #: D-CS-H8390-8-DAPA		SCHEMATIC SHEET ##D-CS-N8358-8-DAPJ	•	1.
ŧ.	TION/DESCRIPTION: EVI/ (NTEXRUPT CONTROLL)	ER .	LOCATION/DESCRIPTION: E25/ FUNCTION CONTRO	L SIGNAL GENERATION	1.004 / TOH / DESCRIPTION: E92/ HLK INCREMENT C	CONTROL	D
. 1=1	SNED PIN MUMBER: REGISTER.OLOCK 8= T.TRAP	15=/VECT.1 16-/VECT.2	ASSIGNED PIN HUMBER: 1= CSR.22 8= CSR.15	15= DEST.CTL.2 16- SRC.CTL.18	PSSIGNED PIN HUMBER: 1= ALU.N 8=/CONS.ACK	15= STATE.1	
3= :	HALT 9-/FG.E IPL.4 10= 6ND IPL.9 11- REG.OUT.EN	16-/ECT.2 17=//ECT.3 16-/HSK	2- CSR.21 9- CSR.14 3- CSR.28 18- 80UND 4- CSR.19 11- MFLIER LSB	16- SRC.CTL.18 17- SRC.CTL.1A 18- DEST.CTL.1B	e- CSR.87 9	16- State.0 17= HC	
5= 6-	IPL.2 12=/[RQ.1 IPL.1 13=/[RQ.8	19=/IRG.OUT 26- VCC	5= CSR.18 12= ALU.CARRY.IN 6- CSR.17 13- SRC.CTL.0	19= DEST.CTL.1A	5= CSR.01 12=/CR.0UT.1 6= CSR.00 12= RBKUP.FLAG	19- ALU.V 19=/DR.OUT.8 28- VCC	il
7-	IPL.0 14=/YECT.0		7= CSR.16 14= SRC.CTL.2	•	7=/CONS.ATTN 14= HC	•	
EQ	UATIONS:		EQUATIONS:		EGLIATIONS:		
•	VECT.0:=IRQ.0m/IPL.4 +IRQ.2=IRQ.1=IRQ.0m/IPL.3		IFT/CSR.221 /DEST.CTL.1A:= /CSR.2; #/CS +/CSR.28*CSR.19*/CSR.18	R.29=CSR.18	IFTVCC1 CR.OUT.0:=/LIP.INSTR#/CSR.04*		
	+ irg_2=irg_1=irg_0=/ifl_3 + irg_2=irg_1=irg_0=/ifl_2 + irg_2=irg_0=/ifl_1 + irg_0=/ifl_3=/ifl_2		+CSR.21*CSR.20*/CSR.19*/CSR.18*CS +CSR.21*/CSR.19*/CSR.10*/CSR.17 +CSR.21*/CSR.20*CSR.19	R.17	+/JUPP , INSTRINCER , 84=ESR , 83=CSR .8 = CSR .80=STATE .1 +/JUPP , INSTRINCER , 823=E8 .4		
	+irg.e=irg.e=/ipl.1=ipl.ne/ipl.1 +irg.e=irg.e=/ipl.3=ipl.e=/ipl.e +irg.1=irg.e=/ipl.1=ipl.e=/ipl.1=	-77M A	+05R.21#-05R.28*-05R.19*-05R.17#-0 +05R.21#-05R.28*-05R.18*-05R.17#-05 #05R.15#-05R.11	5R.15 R.16	#/CSR.00#/STATE.0 +/JUNP.INSTR#/CSR.04#CSR.03#CSR.0 #CSR.00#/STATE.1		
	VECT.1:=IRG.1=/IPL.4	<i>a.</i> L.••	IFCCSR.881 /DEST.CTL.184 - CSR.81=/CSR	26**/CSR.19**CSR.16**/CSR.17**CSR.16	+/JUP, INSTRACSR. 83#/CSR.8 #/CSR.88#COHS.ATTN +/JUP. INSTRACSR.8+#CSR.83#/CSR.8	82#/CSR.81	С
	+ irg.2 = irg.1 = / irl.3 + irg.2 = irg.1 = irg.8 = / irl.2 + irg.2 = irg.1 = irg.8 = / irl.1		+/CSR.20#CSR.19 +CSR.21#CSR.20 +CSR.20#/CSR.19		#CSR.00*COH3.ACX +/JUNP.INSTR#CSR.0H#CSR.03#/CSR.0		
	+irg.1=/[PL.3=/IPL.2 +irg.1=irg.8=/IPL.3=IPL.2=/IPL.1=	/PL.0	+CSR.20**CSR.14 IFI/CSR.221 /SRC.CTL.1A+ /CSR.21**CSR	£e≈∕csR.i9	#/CSR.00#/FCRT.IRQ IFIVCC1 OR.OUT.1!=/JLMF.INSTR#CSR.04#C	DSR.03=/CSR.08==CSR.01	
'	VECT.2:=IR0.2=/IPL.4 +IR0.2=IR0.1=/IPL.3 +IR0.2=IR0.1=IR0.0=/IFL.2		+CSR.21*CSR.19*CSR.18 +CSR.21**CSR.26**CSR.16**CSR.15 +CSR.21**CSR.26**CSR.12**CSR.17**	CSR.15	#ESR.00#EXEP.FLAG +/JUNF.INSTRECSR.0FR2SR.08 #/ESR.00#ALIL!##/ALIV.Y #/ESR.00#ALIL!##/ALIV.Y	E=/CSR.01	
	+190.2×160.1×160.0×161.1 +170.2×/191.3×191.2 +180.2×/191.3×191.2×/191.1		+CSR.21*/CSR.20*/CSR.12*/CSR.17* +CSR.21*/CSR.20*/CSR.10*/CSR.17*/CS +CSR.21*/CSR.20*/CSR.19*/CSR.19*/ */CSR.16*/CSR.15*/HLIER.LSB	R.15 SR.17	+/JUNP.INSTR=CSR.0+=CSR.03=CSR.08 #/CSR.00#/ALU.N#ALU.V	2=/CSR.81	
	+irg.2=irg.8=/ipl.3=ipl.2=/ipl.8		+CSR.21*/CSR.29*CSR.19			•	
7.	VECT.3:=HALT		IFCCSR.221 /SRC.CTL.18:= /CSR.21#/CSR.	3			
	IFLYCC] IRQ.CUT:=VECT.3#/MRSK . +VECT.2		+/C5R.20#-/C5R.10 +/C5R.20#C5R.19 +/C5R.21#C5R.20#C5R.19#/C5R.17#C	R.16			₹ a
	+VECT.1 +VECT.0 +T.TROP=/NOSK	•	+CSR.21*CSR.204CSR.19*/CSR.18*CSF +CSR.21*/CSR.28*/CSR.19*/CSR.18*CSR.18*CSF	.17 R.17=CSR.16			
			IFLVCCI /DEST.CTL.2= CSR.22 +/CSR.21 +CSR.20		•		30-0 12-0
			+CSR.19 +CSR.10				8339
			+/CSR.17 IFEVCC1 /SRC.CTL.2:= /CSR.22*CSR.21*/	SR.19#CSR.18#/CSR.17			200
			+/C5R,2E+C5R,2I+/C5R,20+/C5R,17 +/C5R,2E+C5R,2I+/C5R,20+/C5R,17 +/C5R,2E+C5R,2I+/C5R,20+C5R,17	SR.16=CSR.15			280
			+CSR.22×CSR.21×CSR.19×CSR.18×CSR +CSR.22×CSR.21×CSR.20×CSR.19×CSR	.17 .10	·		В
			IFTVCC] /SRC.CTL.0:- /CSR.22*/CSR.21* +/CSR.22*/CSR.21*CSR.20*(CSR.19*/CSR.20*	SR.20=/CSR.19 .18=CSR.17			
			+/CSR.28+CSR.21#/CSR.26#/CSR.17 +CSR.22*CSR.21#/CSR.19#CSR.18#CSI +CSR.22*CSR.26#/CSR.19		•		
			+CSR_22#CSR_20#CSR_19#/CSR_18#CSI +CSR_22#/CSR_21#CSR_26#CSR_19#CSI	.16=/CSR.17=/CSR.16			
			IFTVCC1 /ALLI.CAFRY.IN= /CSR.22*CSR.2: +/CSR.22*CSR.21*/CSR.20*/CSR.15*/ +/CSR.22*CSR.21*/CSR.20*/CSR.19*/	CSR.14	•		
4		4	#ZCSR.16+CSR.15#CSR.14 +CSR.22#ZCSR.17#ZCSR.16				A
, e	•	•	+CSR.22×CSR.21×CSR.20×CSR.19×CS +CSR.22×CSR.21×CSR.20×CSR.19×C	.10#USR.17#USR.16 R.16#CSR.17#CSR.16			
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PM SP	R(11) ** 14-S	EP-87 13:38:35	SCALE: 9.500	GUDPØ8.P_0 5	V	Ч	3	5 A 6-6-88881	79 d 3000 32(s	1
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	Dell' 14 march 12 - 22 - 22 1	A 84		5087 N. HOER. 22-0084		v •				
	PART HUMBER: 23-Q011 DEVICE TYPE: PAL16R	•		PART NUMBER: 23-008K	•		PART HUNBER: 21 DEVICE TYPE: PA	,	•	
	SCHEWIC SHEET #10			SCHEMIC SHEET #10-				E10-CS- 118398-8-0AP K		
	LOCATION DESCRIPTION		•	LOCATION/DESCRIPTION				PTION: ESP, ESS, E118/ HICKO-PC-F	IVE BIT G IOF	
	ASSIGNED PIN NUMPER			ASSIGNED PIN NUMBER!	,		ASSIGNED PIN NL	•		
	1 - REGISTER CLOCK	9- LOAD . 18	15- PC.EQUALS.2	1= REGISTER.CLOCK	G= RESET	15- STATE.1	1= CLK.UPC	• 8=×P2	15= LPC.2	
	2=/TREQ.[8FILL 3= T.01 4= T.00 5= DECODE.INSTR 6= CSR.00 7= CPU.P2	9=/OATA.REGLEST 18= 30.0UT.EN.L 11= REG.OUT.EN.L 12=/OATA.RECE (VED 13=/18.LOADED 14= STALL.ON.19	16= PC.8 17= PC.1 18=/18.VALID 19=/CLOCK.P2 28= VCC	2* MISC.[NSTR 3* CSR.15 5* CSR.19 5* CSR.19 6* CSR.12 7* CSR.18	9=/IRO.STATE 10= GND 11= REG.OUT.EM 12= PORT.INSTR 13= SEL.ACC 14= STATE.0	16= CPU.ACK 17= CPU.ATTM 18= LCS.PROE 19=/SET_REKLP 28= VCC	2=/0.4 3=/0.3 4=/0.2 5=/0.1 6=/0.8 7=/P1	9= PARML.LD.CSR 18= GND 11= EN.UPC.L 12= SI 13= UPC.0 14= UPC.1	15= UPC.3 17= UPC.4 18= NC 19= PROP.L\S0 28= VCC	
	EQUATIONS			EQUATIONS:	•	•	EQUAT TOKS			
	IB.LORDED1 = LOR +/18.VALID	D. IB		IFTVCC J SET.RBKU	HI HILSC. INSTRUCER. 184/CS	R.15=CSR.14=CSR.13	APC.0: APC	RAL .LD .CSR=/S[+PARAL .LD .CSR=P1=P2=0.4		
	IB.VALIDI = LOAD	. IS=CLOCK .PE		ALCS .PAGE: =NISC .	HSTRIL/CSR_19ICSR_19I/CSR	.14=CSR.13=/CSR.18		+PARAL LD.CSR#/P1#/0.8 +PARAL LD.CSR#/P2#/0.8		
	+ (8.LOADED: +CPU.P2=/11	*CLOCK.P2 REG.IBFILL ** DECODE . INSTR* FB .*	WALID .	+/HISC.INST +CSR.18=/HC	.PAGE		/LPC.11=/PF	RAL.LD.CSR=/UPC.0		
	+/CPU.P2=II		alid	+/CSR.15#/H +CSR.14#/HC +/CSR.13#/H +/CSR.12#/H	S.PAGE S.PAGE		•	+PARAL.LD.CSR:#P1#P2#0.8#0.1 +PARAL.LD.CSR:#/P1#/0.1 +PARAL.LD.CSR:#/P2#/0.1 +PARAL.LD.CSR:#/D.@#/0.1		c
	+DECODE.IN	ILL=/Y.01=CPU.P2 5TR=CSR.00=/T.01=CPU.P2 ILL=/DECODE.INSTR=/PC.1=CPU.	•	*RESET	NETDENCO (Surco (Surco)	1687CD 1287CD 14	/LPC.21=/P4	RAL.LD.CSR#/LPC.1 +PARAL.LD.CSR#P1#P2#0.8#0.1#0.2	•	
		ILL#/CSR.08#/PC.1#CPU.P2	re	+/115C.INST +/115C.INST +CSR.18=/CP	(NSTR#/CSR.18#CSR.1 %#C SR.1 R#/CPU.ATTN 1.aTTN	ITE/COR. I SE/COR. IE		+PARAL.LD.CSR#/P1#/0.2 +PARAL.LD.CSR#/P2#/0.2		
		ILL×/Y.80*CPU.P2		+/CSR.15#/C +/CSR.14#/C	MIA.LF			+PARAL.LD.CSR=/D.8=/D.8 +PARAL.LD.CSR=/D.1=/D.2		
	+DECODE.IN +/mREQ.IBF +/mREQ.ISF	STR=CSR.08=/Y. 00=CPU.P2 [LL=/DECODE.[NSTR=/ PC.0=CPU.] LLL=/CSR.08=/PC.0=CPU.P2	P2	+/CSR.13=/CP +CSR.12=/CP +RESET	น.ลเท		/LPC.3: =/PA	RAL.LD.CSR=/UPC.2 +PARAL.LD.CSR=P1=P2=0.0=0.1=0.2=).1	
	+/PC .8#/CPI	1.P2 REQ. IBFILL=>T. 8 1=CPU.P2		/CPU.ACK:=HISC.I +/HISC.INST	VSTR=/CSR.18=CSR.15=CSR.11	12/CSR.132/CSR.12		+PARAL LD.CSR#/P1#/D.3 +PARAL.LD.CSR#/P2#/D.3 +PARAL.LD.CSR#/D.8#/D.3		<u> </u>
	+nREQ.[BF]	LL=/Y.00=CPU.P2 STR=CSR.00=/Y.01=CPU.P2		+CSR.18#/CP +/CSR.15#/C	I.ACK			+PARAL.LD.CSR#/0.1#/0.3 +PARAL.LD.CSR#/0.2#/0.3		
	+0ECODE.IN +/MREQ.IBF +/MPEQ.IBF	STRRCSR,03m/Y,00mCPU,P2 ILLM/DECODE,INSTRM/PC,EQUALS ILLM/CSR,08m/PC,EQUALS,3mCPU 5,3m/CPU,P2	.3=CPU .P2 .P2	+/CSR.1+#/C +CSR.13#/CP +/CSR.12#/C +RESET	PULACK LLACK		•	Ral.LD.CSR#/LPC.3 PARAL.LD.CSR#P1#P2#0.8#0.1#0.2#0. PARAL.LD.CSR#/P1#/D.h		¥ & #
	/STALL.OH. IB: =II	9.VALID	·	STATE.1:=IRO.ST	TE		•	PARAL.LD.CSR=/P2=/D.4 PARAL.LD.CSR=/D.8=/D.4		H
		il=Decode.instr=CPU.P2 CEIVED:=MRE2.IBFILL		+nisc.instr +nisc.instr +/nisc.inst	//CSR.18=/CSR.15=/CSR.13=/ //CSR.18=/CSR.15=/CSR.14=/ /=/STATE.1	CSR.13	•	PARAL.LD.CSR=/D.1=/D.4 PARAL.LD.CSR=/D.2=/D.4 PARAL.LD.CSR=/D.3=/D.4		
	+DECODE.IN +DATA.REGU	STR=CSR.09=PC.EQUALS.3		+CSR.18#/ST +CSR.15#/ST +/CSR.13#/S +CSR.12#/ST	NTE.1 NTE.1 NATE.1		IFT VCC) /PR	OP.L\S01=/PARAL.LD.CSR=/UPC.\ ARAL.LD.CSR=0.0=0.1=0.2=0.3=0.\		4.746 9-6-6-5-6
				/STATE.4:=IR).ST	TE /					2
				+nlsc.lystr +nlsc.lystr +/nlsc.lyst	1/CSR.18=/CSR.15=/CSR.14=C 1/CSR.18=/CSR.15=/CSR.14=/ 1=/STATE_A	CSR.12 CSR.12				19 d
				+CSR-18#/ST +CSR-18#/ST +CSR-13#/ST	TE.8					8
				+/C5R.12#/S		144.000 13=000 13				
				*/fisc.inst +CSR.i8#/SE +/CSR.i5#/SE +CSR.i1#/SE +CSR.i1#/SE +CSR.i2#/SE +RESET	REVSELLACC LLACC LLACC LACC			÷		
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HOUSE	REVISIONS REVISIONS REVISIONS REVISIONS REVISIONS			•		DSK: GLOP	8 12PC367,1500 IIII-SEP-	DATE PORPO LOCATIONS SHEET RS OF 14 81 15:12 MEXT HIGHER ASSENBLYS	SIZE CODE NUTBE	
CORPOR	C Intel	<u> </u>	• •	· · · · · · · · · · · · · · · · · · ·		FIRST US	D ON OPTION MODEL: 11	730 B-00-H8390-0-0	D GL M8390-0-0	

PROGRAM SA(11) **	14-SEP-87 13:46:22	SCALE: 8.500	GUOPE9.P.O 5	<u> </u>	3	2 8 0-0- MERCE (EX. S	D 65 118336	1
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INTERNATION AND PROPERTY OF PROPERTY OF THE PR	NO. FEV				OSK:GLDP09.12P1367.1500][11-SE FIRST USED ON OPTION/MYSL:	7-81 15113 NEXT HIGHER ASSENSE 11/730 B-00-M8390-0-0	AND POL	
8	7	6	5	/\\ '	3	2		1

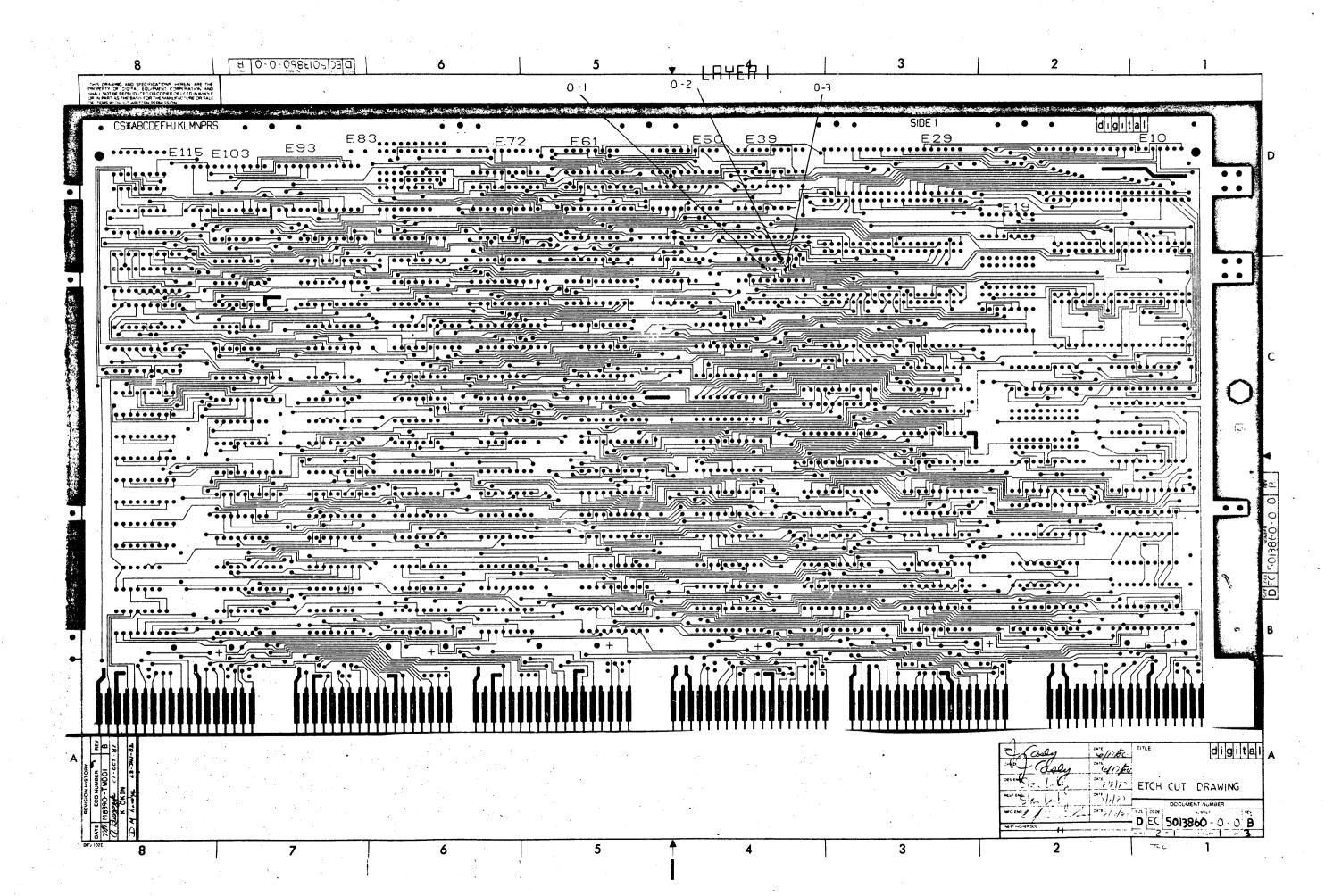
Column C	PROGRAM \$A(11) ** 14-	SEP-87 13:58:12	SCALE 9.500	GUDP10.P_0 5	V . 4	3	2 4 0-0-0568H 73 0	
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LOC DAT DAT	LOC DAT DAT	LOC DAT DAT				HEX HEX BIN HEX HEX BIN	
PART NUMBER: 23-133F3-00 ,PAGE 1 DEVICE TYPE: 1024 X 8 SCHEMATIC SHEET #: D-CS-M8390-0-DAPF LOCATION/DESCRIPTION: E103 / OPCODE DECODE LEFT COLUMN OF BIN DATA IS MSB	15 000 0 1 1 1 1 1 1 1	### OE 00001110 ### OE 0000111	981 27 921981111 982 27 981901111 983 27 981901111 984 27 981901111 985 27 981901111 986 27 981901111 988 94 98901199 988 94 98901199 988 94 98901199 988 94 98901199 988 94 98901199 988 94 98901199 988 94 98901199 989 94 98901199 991 94 98901199 991 94 98901199 992 94 98901199 993 94 98901199 993 94 98901199 994 98901199 995 94 98901199 995 94 98901199 996 94 98901199 997 94 98901199 998 94 98901199 998 94 98901111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 988 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111 989 97 989001111	GC1 39 GQ119000 GC2 33 GQ119000 GC3 32 GQ119000 GC4 32 GQ119000 GC5 33 GQ119000 GC5 33 GQ119000 GC7 33 GQ119000 GC7 33 GQ119000 GC9 34 GQ19000 GC9 35 GQ19000 GC9 36 GQ19000 GC9 37 GQ19000 GC9 38 GQ19000 GC9 39 GQ190000 GC9 39 GQ190000 GC9 39 GQ1900000 GC9 39 GQ1900000 GC9 39 GQ1900000 GC9 39 GQ19000000000000000000000000000000000000	101 81 101 102 102 102 82 101 102 103 82 101 102 104 82 101 102 105 82 101 102 105 82 101 102 105 82 101 102 103 83 100 100 103 98 100 100 103 98 100 100 103 98 100 100 104 70 111 101 108 80 100 100 102 83 100 100 102 83 100 100 102 80 101 110 105 80 101 110 105 80 101 110 110 85 101 111 101 112 85 101 111 101 113 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 85 101 111 101 115 115 101 111 101 115 101 115 101 115 101 115 101 115 101 115 101 115 101 115 101 115 101 115 101 100 125 100 100	191	181 C2 10110010 1C1 D6 11011011 182 E2 10110010 1C2 D8 11011011 183 E2 10110010 1C3 D8 11011011 185 E2 10110010 1C5 D8 11011011 185 E2 10110010 1C5 D8 11011011 186 E2 10110010 1C5 D8 11011011 187 E2 10110010 1C7 D8 11011011 188 B8 10111011 1C8 D8 11011011 189 BC 101110010 1C7 D8 11011011 189 BC 10111100 1C9 D8 11011011 189 BC 10111100 1C9 D8 11011011 180 B9 100000000 1C8 D8 11011011 180 B9 100000000 1C8 D8 11011011 180 B9 100000000 1C8 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 B9 100000000 1C0 D8 11011011 180 D9 100000000 1C0 D8 11011011 180 D9 10000000 1C0 C7 110001111 190 C2 110000010 100 C7 110001111 190 C2 110000010 100 C7 110001111 190 C2 110000010 100 C7 110001111 190 C2 11000010 100 C7 11000111 190 C2 11000010 100 C7 11000111 190 C2 11000010 100 C7 11000111 190 C2 11000010 100 C7	
LOCATION/DESCRIPTION: E103 / OPCODE DECODE LEFT COLUMN OF BIN DATA IS MSB BINDRY DATA MIN - MICH							PART NUMBER: 23-133F3-00 ,PAGE 1 DEVICE TYPE:1024 x 8	
CITY ON THE PROPERTY OF THE PR	INC. CARLOS FOR SECTIONS					•	LOCATION/DESCRIPTION: E103 / OPCODE DEC LEFT COLUMN OF BIN DATA IS MSB BINARY DATA "1" = HIGH	00€
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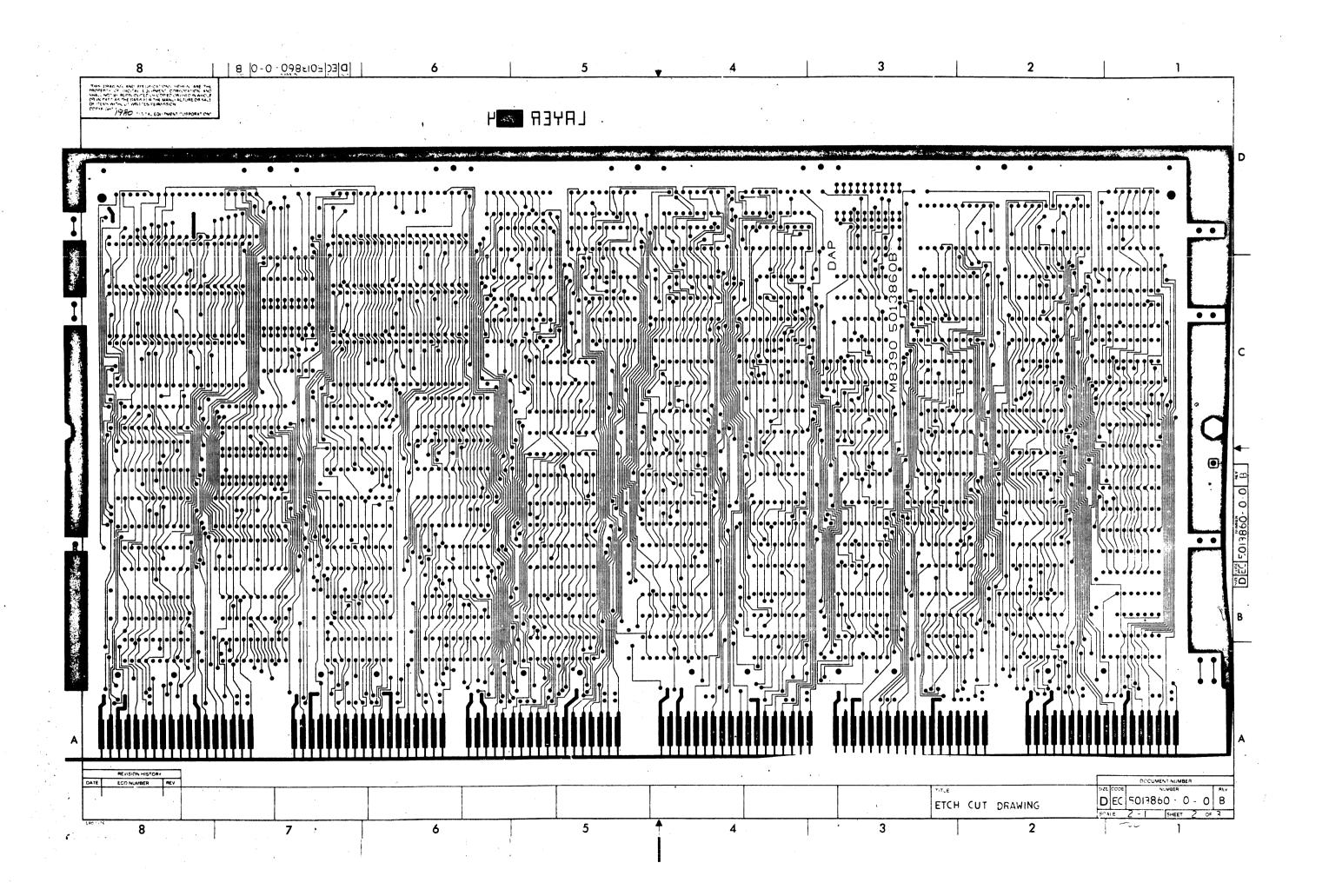
PRO	GRAM 8A(11) - 114-5	EP-87 14:10:09	SCALE 9.500 GL	UDP11.P_0 5	4 3 2 5 8-9-05E34 79 d 1
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					PART NUMBER: 23-133F3-00 ,PAGE 2 DEVICE TYPE:1024 X 8 SCHEMETIC SHEET #:D-CS-M8390-0-DAPF LCCATION/DESCRIPTION: E103 / OPCODE DECODE LEFT COLUMN OF BIN DATA IS MSB
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Mark Line	8	7	6	5	4 3 2 1

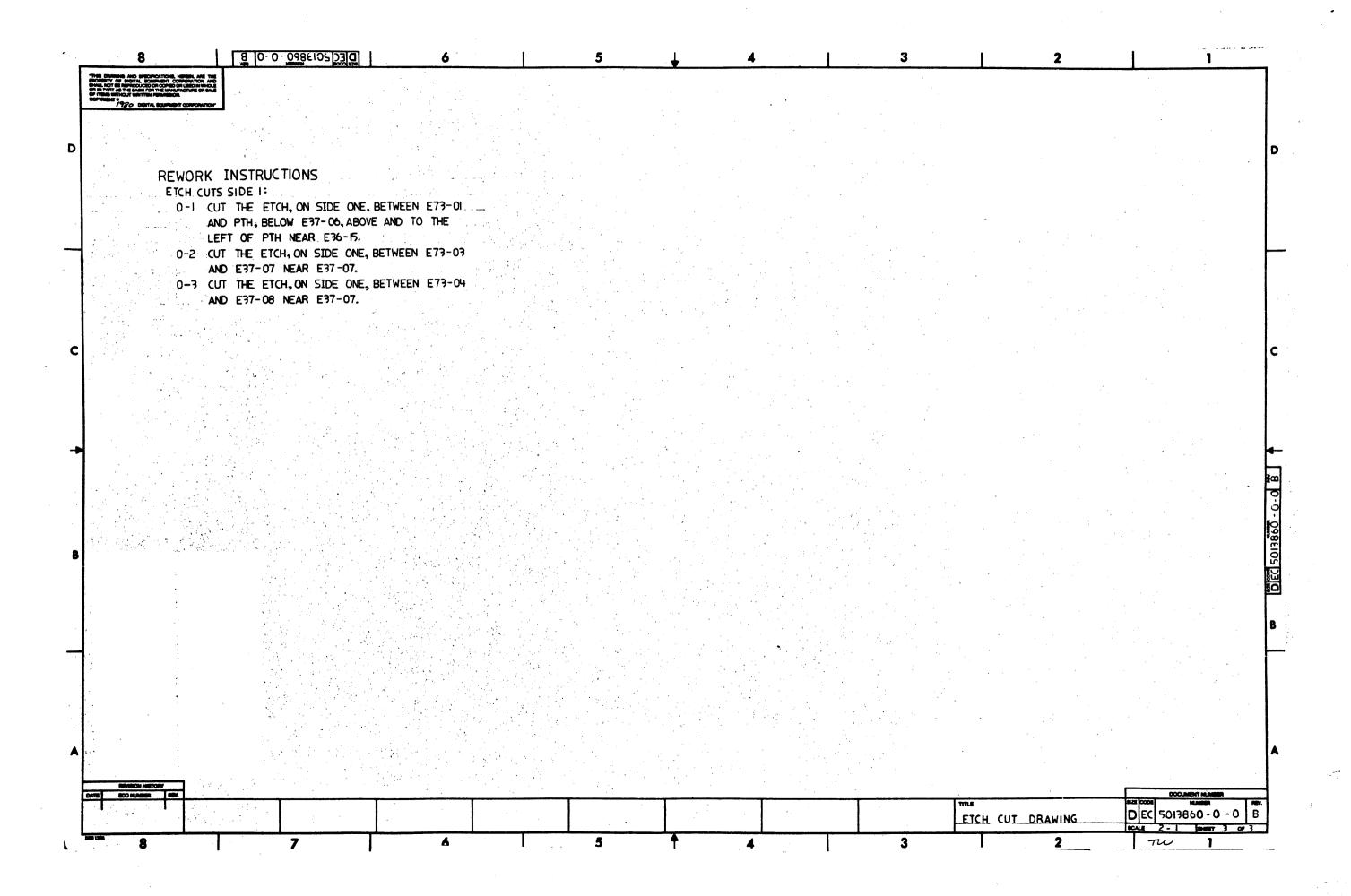
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	•	•				PART NUMBER: 23- DEVICE TYPE:512	945A9-00 X 4 #: D-CS-118390-0-DAPA	
		•				LOCATION/DESCRIP	TION: E46 / ALU CONTROL	
NS OWNERS AND STREET OF REVISIONS	· · ·					LEFT COLLING OF B BINARY DATA "1" BINARY DATA "8"	= HIGH	.
HAL IT SE REPORT TO THE SECOND CHANGE NO. RE	<u>v</u>		•		digite i chengant		E TITLE DATA PAT	H ROM
Service Servic	7	6	5	Λ 4	DSK:GLOP12.72P(357,1508) 21-55P FIRST USED ON OPTION-MODEL: 11	DATE STARD LOCATION: SECT 12 OF 1	SIZE CODE NUMBER D GL M8390-0-0	REV.
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				· · · · · · -		PART NUMBER: 23-954A9-80 DEVICE TIPE:512 X 4 SCHEMATIC SHEET #:D-CS-M8398-0-DAPF LOCATION/DESCRIPTION: E82 / D.T. & C. LEFT COLLIN OF BIN DATA IS M58 BINARY DATA "1" = HIGH BINARY DATA "8" = LOW	C. CLASS
THIS COURTED HE SPECIAL OF THE CONTROL OF THE CONTR	EVISIONS ISHREE NO. REV	6	5	A 4	DSC: GLDP13. TSPE 367.15.33 JIST FIRST LISED ON OPTION-MODEL 3	DATE SCAPE LOCATION: -SEP-81 14:12 NEXT HIGHER ASSEMBLY: SIZE CODE	PATH ROM AL LISTINGS NUMBER REV0-0 A
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LPADL	<u> </u>	0.500 CHUTE.PL	<u> </u>	r	3	5 A X-9-66	1 2005 23(5)
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MAIN MEMORY CYCLES S OUT, WRITE DATA GUT AND DATA IN)					<u></u>	luuluuluuluuluuluuluuluu	ևուհակավայնականակա
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•			OUT TO MEMORY CONTROLLER VALID	DATA IN VALID		•	48
DISABLE ALL 0 - BUS DRIVERS	D - ADDRESS DECODERS (PALS)	TRI-STATE ENABLE TIME	2901A D> 61P	XCVR DELAY FROM MC BUS	- 2901A D	LS RAIN RAIN CATA SETUR	LOCAL STORE RAN LIRITE PLLSE
45	40	22 (MAX)	35	18	12	4 <u>9</u> 5 5	45
ARITHMETIC READ-MODIFY-WRITE O LOCAL STORE			•.	32-BIT CARRY LOOKA	HEAD		
SR DELAY ALLI FUNCTION CONTROL COO	DE GENERATION (ROM DELAY)	2901A ALLI FUNCTION CTL	> G ₁ p	6,P>6,P 6,P->C C	> C 2901A CARRY	-> CONDITION CODES (2)	CONDITION CODE LOGIC SETUP TIM
10			19	10 7	10	50 11	
HORKING REG ADDRESS GENERATI	ON (PAL) - 2	MOTA A.B ACORESS> G.P			2981A CARRY> 04	LS Rant DATA SETUR	LOCAL STORE BAN URITE PULSE
ALU SOURCE CONTROL CODE GENER	otioned)	65 ·			30	21 5	45
ULTIPLY CYCLE (MSB) 40	25			IT CARRY LOOKAHEAD	•		
IPLIER LSB ACCESS ALLI SOURCE CONTROL C	CODE GENERATION -	2901A ALLI FUNCTION (CARRY->CONDITION CODES	SHIFT DATA LOGIC (PAL)	29910 00M SUIST IN
ජ 40	18	45	18	7 18	30	40	2901A RAM SHIFT IN 9
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SHIFT/HELTIPLY CYCLE		9 5 198		·	40	52	25
Ren->0, Ren->Ren	- 2901A RAM ADDRESS	-> Y OUT (BYPASSING ALU)	:		•		
ACCEL/PORT DATA TRANS	•				1 **	220	
ER. ALLI DESTINATION CONTROL C	ODE GENERATION (ROH, PAL)	DIA DEST CTL> Y OUT TRA BYPASSING ALU>	ID ON Y-BUS			LS SETUP	LOCAL STORE WRITE PULSE
CIFIER DECODE 18 BYTE SELECT	• •	~	HICRO ADDRESS <13:11, 3:05	VALID		5	v5
LLL	BYTE ENABLE GATE SPECIA	TER RON ACCESS	TINE HER	,	CONTRO	L STORE ACCESS	
25 6 12 (OE DECODE (IRD)	18 6	6 3	6			132	
R DELAY GATE DECODER IS SYTE EN	ABLE IRD ROP	ACCESS TIME					
SCTL FIELD DECODE (PAL	.> GATE GATE MPC OU	7 8 PUT ENABLE LOW INCREMEN	3	MICRO ACORES	S BITS		
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RETURN - JUMP INSTRUCTION DECODE (PRL> . µSTACK OUT	0> c our	HIGH INCREMENTER CIN	> D OUT (PAL) MUX		CONTROL STORE ACC	ESS
HSTACK ADDRESS GENERATE	OII µSTACK RAM ACCES	FINE		•		1 0 4	
SKIP CONDITIONS STABLE T39 HLAN	SKIP CONDITION SELECTION	GATE C IN> C OUT				•	CPU HICROCYCLE TIMING DATA PATH AND HICRO-SEQUENCER
PEVISIONS PEVISIONS CHANGE NO. REV CHANGE NO. REV					A CANADA AND AND AND AND AND AND AND AND AN	Holmen Signature ENG. DA	TITLE: 11/730 CPIJ
				"	(362 : 580)C3UTD DRW 125-	SEP-AL 18:84 NEV HIGHER OF	MICROCYCLE TIM
THE STATE OF THE S				12	FIRST USED ON OPTION/HODEL:		D TD M8390-0-X







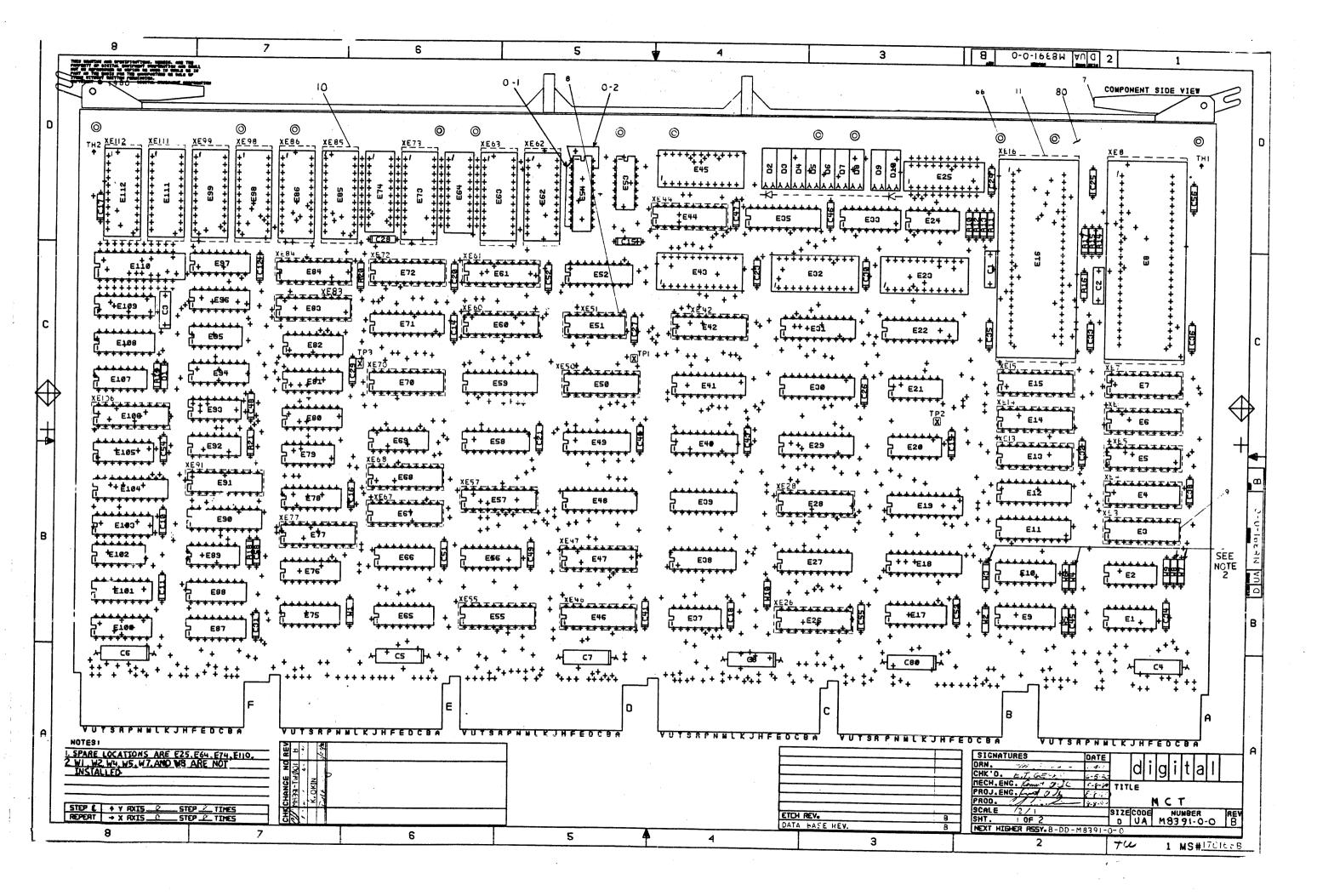
B DD SIZE CODE NUMBER DRAWING NO. SHTS PART NO. **DESCRIPTION REVISIONS** MODULE REVISION ABC B-DD-M8391-0 1 DRAWING DIRECTORY ABC D-UA-M8391-0-0 2 UNIT ASSEMBLY ABB K-PL-M8391-0-DBP 3 ABC PARTS LIST BBBB 5013893 ETCH BOARD K-PC-5013893-0-DBC DESIGN DATA BASE PC BOARD BBB AAB D-MD-5013893-0-0 5 MECHANICAL DRAWING D-EC-5013893-0-0 3 ETCH CUT DRAWING ABB K-CS-M8391-0-DBS DESIGN DATA BASE SUDS ABB D-CS-M8391-0-MCTA 1 ARRAY CONTROL ABB D-CS-M8391-0-MCTB 1 VAR AND ADDRESS DECODERS ABB D-CS-M8391-0-MCTC 1 ABB TRANSLATION BUFFER D-CS-M8391-0-MCTD 1 ABB BUS MC DRIVERS, CLOCK GENERATION D-CS-M8391-0-MCTE 1 A B B ARBITRATOR AND POWER UP/DOWN D-CS-M8391-0-MCTF 1 ABB CONTROL AND STATUS REGISTERS D-CS-M8391-0-MCTH 1 UNIBUS ADDRESS XCVRS AND TERMINATOR ABB ABB D-CS-M8391-0-MCTJ 1 ECC CONTROL D-CS-M8391-0-MCTK 1 DATA CONTROL AND REFRESH LOGIC ABBB D-CS-M8391-0-MCTL 1 ABB DATA ROTATORS/LATCHES D-CS-M8391-0-MCTM ABB 1 CONTROL STORE 1 D-CS-M8391-0-MCTN ABB FILTER CAPACITORS D-BD-M8391-0-0 1 - A B MEMORY BLOCK DIAGRAM D-GL-M8391-0-0 16 - A B ROM AND PAL LISTINGS 3 - A B D-TD-M8391-0-0 MEMORY TIMING DIAGRAM **NOTES: 2** CHG NO. TW001 REVISI 10-81 4-82 DATE DRN. J. CASEY **USED ON OPTION/MODEL** TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-8-6-80 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D J. CASEY MCT NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN 8-6-80 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER ENG. K. OKIN REV. 8-8-80 ITEMS WITHOUT WRITTEN PERMISSION. M8391-0 DIGITAL EQUIPMENT CORPORATION C.J. CONSIDINE 8-8-80 SHEET 1 OF 2 **DRB 126**

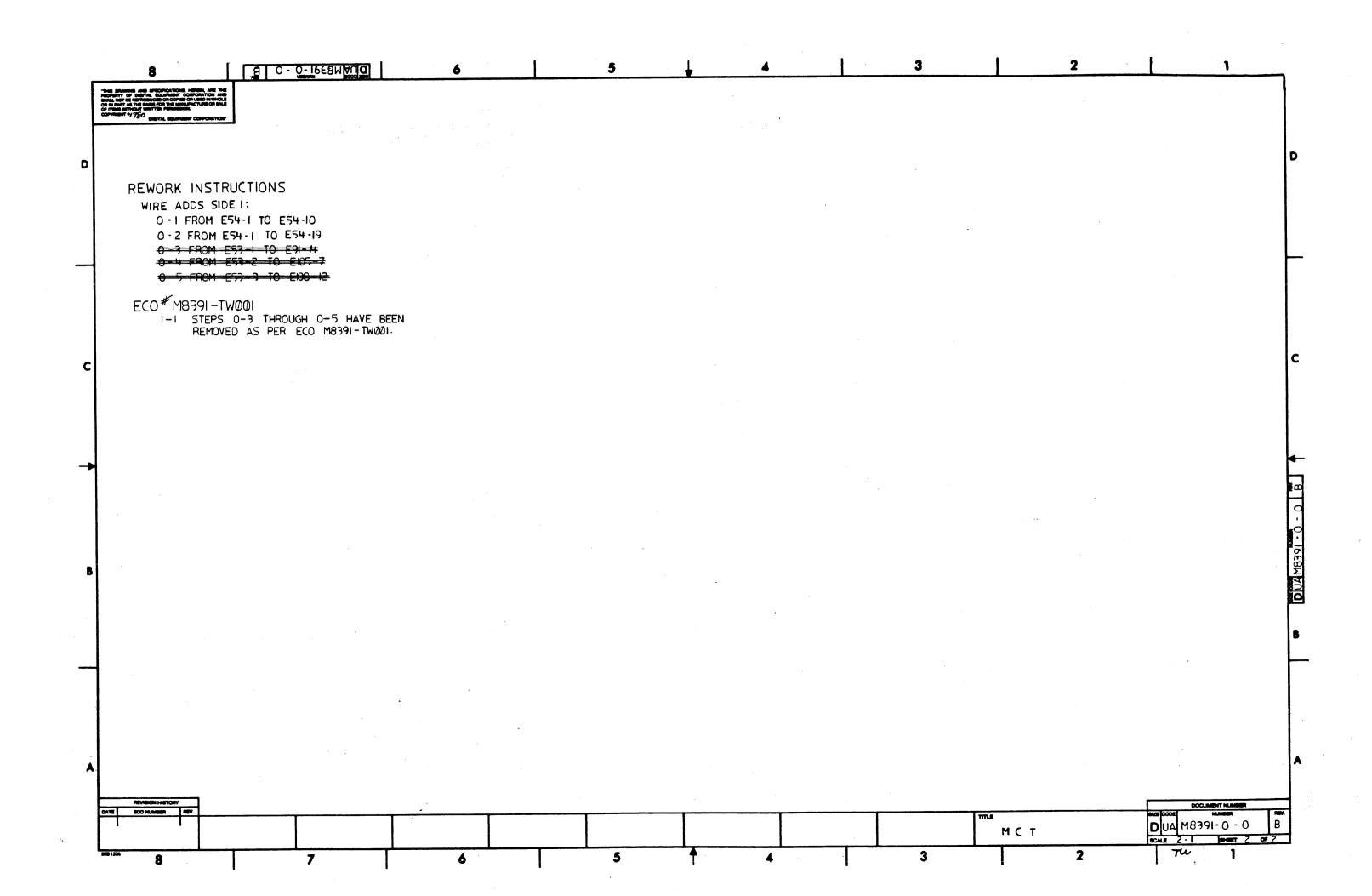
0-1688M

Э B DD size code REV. NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** D-FD-M8391-0-0 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-1 1 AB MEMORY FLOW DIAGRAM D-FD-M8391-0-2 1 MEMORY FLOW DIAGRAM AB 1 D-FD-M8391-0-3 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-4 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-5 1 MEMORY FLOW DIAGRAM D-FD-M8391-0-6 1 MEMORY FLOW DIAGRAM D-FD-M8391-0-7 1 MEMORY FLOW DIAGRAM AB 1 D-FD-M8391-0-8 MEMORY FLOW DIAGRAM AB 1 D-FD-M8391-0-9 MEMORY FLOW DIAGRAM AB 1 D-FD-M8391-0-10 AB MEMORY FLOW DIAGRAM 1 D-FD-M8391-0-11 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-12 MEMORY FLOW DIAGRAM AB AB D-FD-M8391-0-13 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-14 MEMORY FLOW DIAGRAM 1 AB MEMORY FLOW DIAGRAM D-FD-M8391-0-15 D-FD-M8391-0-16 MEMORY FLOW DIAGRAM AB AB D-FD-M8391-0-17 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-18 MEMORY FLOW DIAGRAM AB D-FD-M8391-C-19 MEMORY FLOW DIAGRAM AB D-FD-M8391-C-20 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-21 MEMORY FLOW DIAGRAM **NOTES:** အပြ REVISIONS
CHG NO.
TWOO!
TWOO2 DATE 1-82 2-82 DRN. USED ON OPTION/MODEL TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY 8-6-80 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D MCT NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY 8-6-80 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. K. OKIN 8-8-80 B C M8391-0 COPYRIGHT® DIGITAL EQUIPMENT CORPORATION PROD. C. CONSIDINE 8-8-80 SHEET 2 OF 2 **DRB 126**

7-1,2

0-16E8M





•	OMATED BY PRTLST.3M(4) E ITEM DOCUMENT NUMBER		PARIS LIST DESCRIPTION	QTY PER VARIATIO	SHEET A1 OF A3 REFERENCE DESIGNATOR
	90 D-MD-5013893-0-	1000064-00 1012084-01 1012784-00	NEBULA MCT 3.9MFD 10V 10% S.TAN 8 MFD 25V +75-10% AL E .047 MFD 50V +80-20% CE	T 1 L 5 R 41	C3 C4-C8,C80 C10-C12,C14-C21,C23-C36,C38,C40, C41,C43,C45-C49,C51-C56,C58
58789	T-5.680	1013466-11 1105796-00 1112689-00 1215006-02 1215006-04	.22 MFD 50V +80-20% Z5U CE 1N 4004 PIV=400 I= 1A D041 SP LED .8MCD016MA VF=5V SKT,IC 16PIN DIP TIN PLATE SKT,IC 20PIN DIP TIN PLATE	CONT R 2 1 9 1 28	041,043,045-044,051-056,058 01,02 D1 D2-D10 XES1 XE3-YE7 YE13-YE1E YESE YESS
10		1215006-05	SKT,IC 22PIN DIP TIN PLATE	TONT TONT CONT 9	D2-D10 XES1 XE3-XE7,XE13-XE15,XE26,XE28, XE42,XE44,XE46,XE47,XE50,XE55, XE57,XE60,XE61,XE67,XE68,XE70, XE72,XE77,XE83,XE84,XE91,XE106, XE62,XE63,XE73,XE85,XE86,XE98, XE99,XE111,XE112, XE8,XE16
	11 12 SEE NOTE 1 13 SEE NOTE 2 14	1215924-00 1215935-00 1215936-00 1216988-02 1300229-00	SKT.IC 48PIN DIP GOLD PLATE GASKET. THERMAL .50"X.80" HEAT SINK, FORCED CONVECTION HANDLE, MODULE, HEX TWO EJECTORS 100.0 .25 W 5.0 % CC 39.0 % CC 39.0 % .25 W 5.0 % CC R NETWORK 14-330 14-680 16PIN R NETWORK 14-176.5 14-375 16PIN DELAY= 75NS, STAPS 74S00 NAND GATE-QUAD 2IN 74S04 INVERTER GATE-HEX 11 74S157 MUX 1 OF 2 (QUAD)	ยณ⊷ณณะ	
17 18 19 20 21	14 15 15 17 17 17 17 17 17 17 17 17 17 17 17 17	1300227-00 1302377-00 1302514-00 1311003-02 1312628-00 1616322-00 1910532-00 1910534-00 1910549-00 1910550-00	39.0 K .25 W 5.0 % CC R NETWORK 14-330 14-680 16PIN R NETWORK 14-176.5 14-375 16PIN DELAY= 75NS.5TAPS	50 1 1 1 1	R18,R20,R21 R10-R17 R19 E65 E56,E78,E38,E100
+ PREPRE	+++++++++++++++++++++	1910549-00 1910550-00 ++++++++++	74500 NAND GATE-QUAD 2IN 74504 INVERTER GATE-HEX 1I 745157 MUX 1 OF 2 (QUAD) 745158 MUX 1 OF 2 (QUAD) 745174 FF-D HEX	2 1 1 1 1	E2 593 E79,E102 E97
ENG!	ECO NUMBER REV	BASIC PART NO: M839	DRN: J.FERGUSON DA	TE: 14-MAR-80	D I G I T A L PARTS LIST
КО	INITIAL M8391-TWOO1 B	SECTION.VARIATION INDE [A] DO [B] [C] [D]		TE: 14-MAR-80 MC1 TE: 22-APR-80	
		IĒI [F] [H] [J] [K]		++++++++++++ SIZE	
+++		[L] [M] [N]	ASSEMBLY NUMBER: TOP	TE: 8-AUG-80 K P DOCUMENT NUMBER: DD-M8391-0-0	FILE NAME: EDIT # 21270B.PLS 17
	OR COPIED OR USED I	ECIFICATIONS HEREIN, A N WHOLE OR IN PART AS COPYRIG	RE THE PROPERTY OF DIGITAL EQUIPM THE BASIS FOR THE MANUFACTURE OR HT (C) 1982. DIGITAL EQUIPMENT CO	MENT CORPORATION AND SALE OF ITEMS WITHO PROPORATION "	SHALL NOT BE REPRODUCED UT WRITTEN PERMISSION.

UTOMATED BY PRILST.3M(41) INE ITEM DOCUMENT NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	SHEET A2 OF A3 QTY PER VARIATION REFERENCE DESIGNATOR
456789012037567890144444444444565555555555555555555555555	1910956-00 1911116-00 1911573-00 1911579-00 1911641-00 1911676-00 1911712-00 1912388-00 1912389-00 1912697-00 1912799-00 1913671-00 1913671-00 1913888-00 1914214-00 1915019-00 1915019-00 1915019-00	745151 MUX 1 OF 8 RECEIVER, BUS, HEX, UN PARITY GEN/CHKR, 9BIT TRANSCEIVER, BUS, QUA TRA	E94, E96, E108, E109 E101 E20, E21 E20, E21 E20, E21 E20, E21 E20, E27 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E17 E20, E16 E16, E16 E16, E17 E20, E21 E27, E31, E54 E23, E32 E33, E45 E23, E59 E33, E45 E33, E59 E33, E45 E33, E59 E59 E59 E59 E59 E59 E59 E59 E59 E59
45 45 46 47 48 49 49 55 55 55 55 55 55 55 55 55 55 55 55 55	1915697-00 2116957-02 23946A9-00 23905K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00 23005K4-00	RHM 256X4 TR1-STHTE 1K MOS RAM 70NS 1 A9-01 K5-01 K4-01 K4-01 K4-01 K4-01 PAL, ARRA D2-01 D2-01 D2-01 D2-01 D2-01 K3-01 PAL, REG, CONT D2-01 K3-01 PAL, REG, CONT	E38-E40, E49, E52, E58 E38-E40, E49, E52, E58 E57-7 E42 E72 E73-E42 E73-E42 E74-2 E75-7 E75
55 55 57 57 57 57 57 57 57 57 57 57 57 5	23015K3-00 23037D2-00 23019K3-00 23038D2-00 23026K3-00 23056K3-00 23060K3-00 23023K3-00 23025J5-00 23042J5-00	PAL, REG, CONT PAL, REG, CONT D2-01 PAL, REG, CONT D2-01 PAL, REG, CONT D2-01 R3-01 PAL, REG, CONT D2-01 R3-01 PAL, REG, CONT R3-01 PAL, REG, CONT PAL, LOGIC, CONT D3-01 PAL, LOGIC, CONT D3-01 PAL, LOGIC, CONT D3-01 PAL, LOGIC, CONT PA	E63, E26,E67,E70 E86 E60 E73 E91 E111 E68 E105 E61 E44 E44 E46
D I G I T A L	LE MCT	SECTION A	OF A K PL M8391-0-DBP B

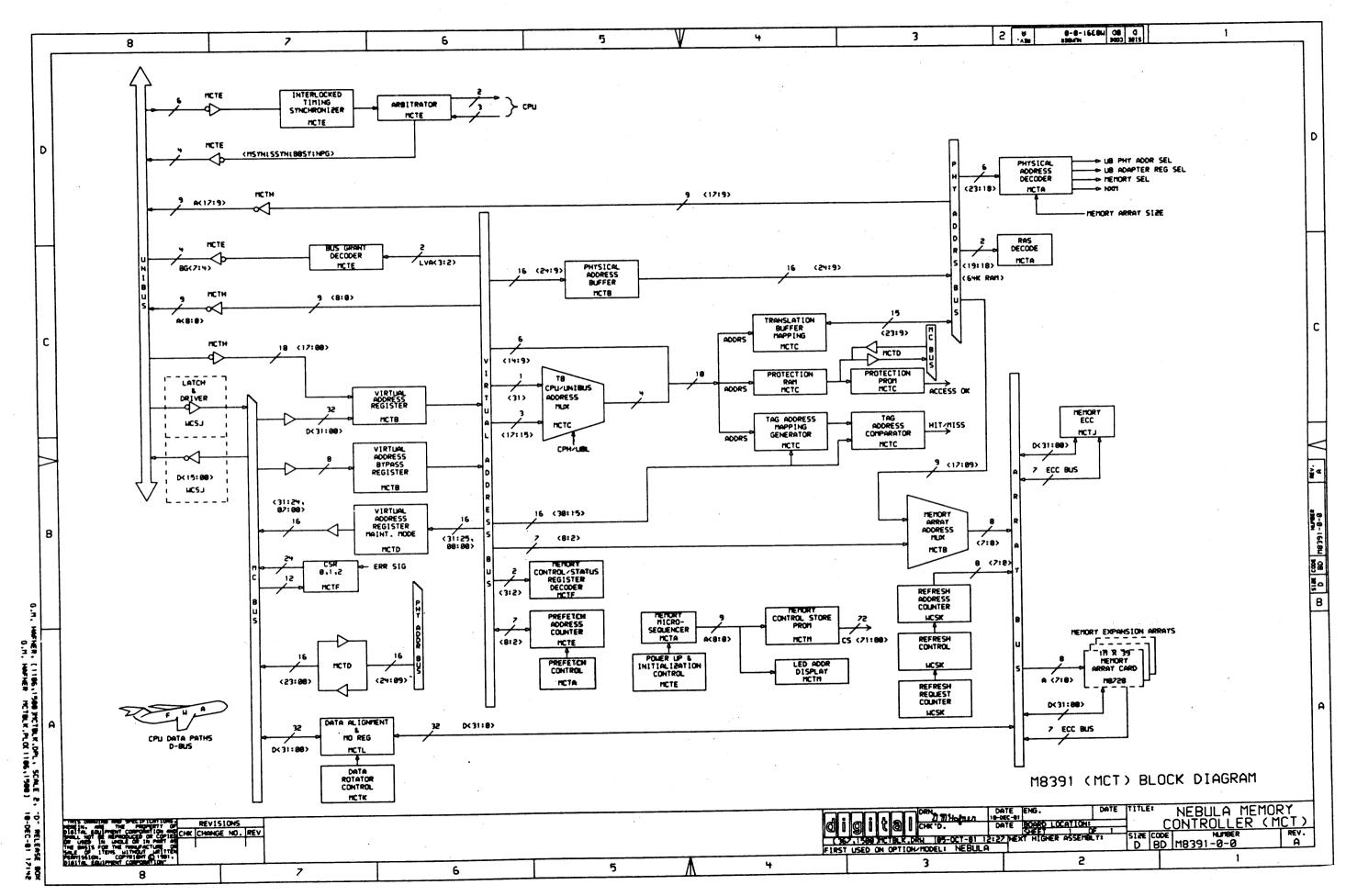
• *

AUTOMATED		ST.3M(41) NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QTY PER VARIATION DO REFERENCE DESIGN	SHEET A3 OF A3
74 65 75 65 77 68 79 81	1		23043J5-00 23044J5-00 9009000-00 9009149-00 9009185-00 9105740-55	JS-01 PAL,LOGIC,CONT JS-01 PAL,LOGIC,CONT EYELET,ROLL FLANGE .1210DX .156 PIN, STAKING, P.C. BOARD, .025 X JUMPER, WIRE, INSULATED, BLACK B WIRE(WRAP)30AWG UL1423	1 E55 12 E84 12 TP1-TP3 4 W3,W5,W9,W10	
SC NOTE 81 NOTE	: NOTE 1 : NOTE 2	ITEM 12 ITEM 13 !!!!!!!!!!!!!!	JSED IN REF DES E8, JSED IN REF DES E8,	AA DELEACADLE MA DEE DEC ADEAU	*######################################	*****

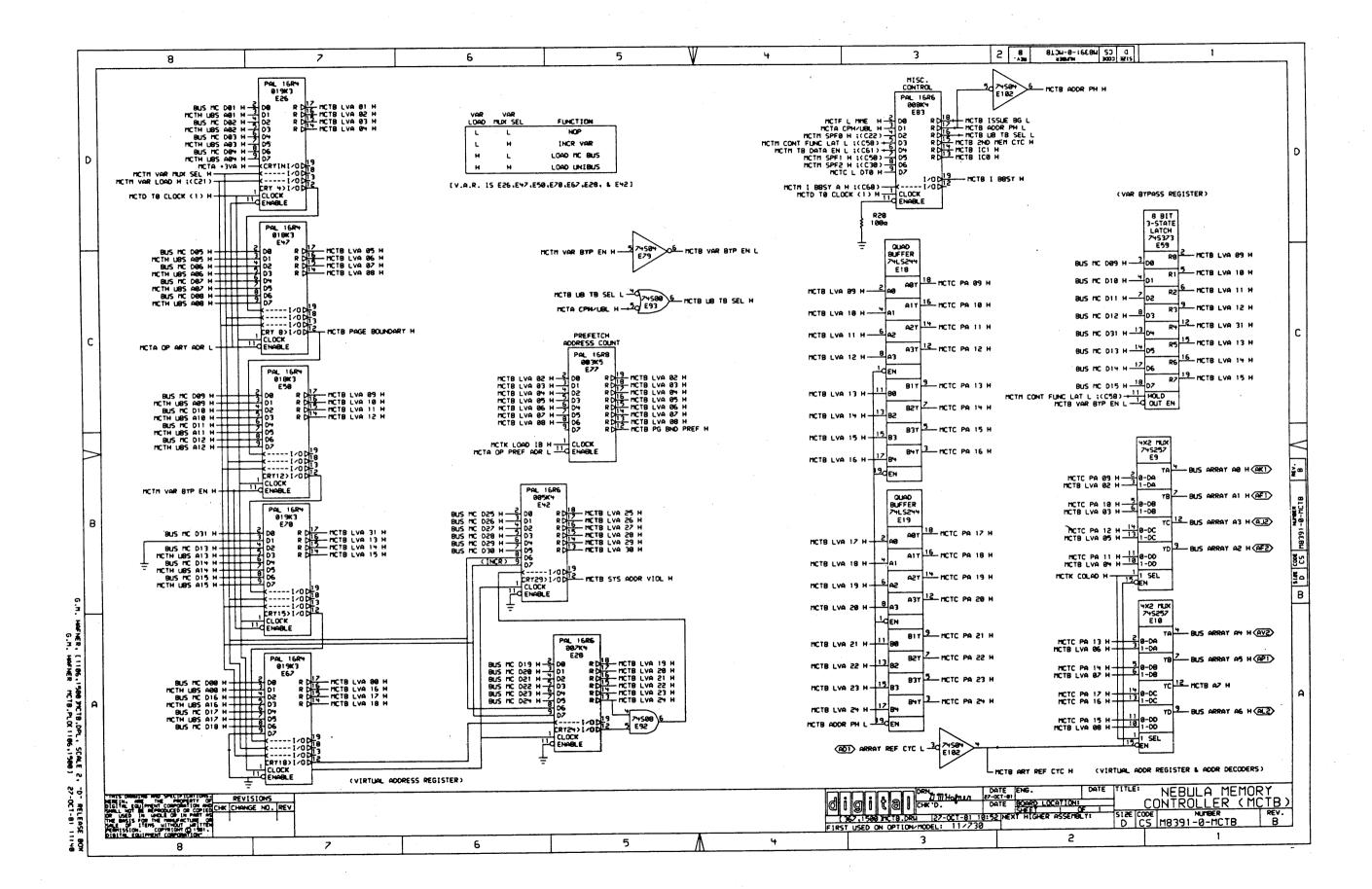
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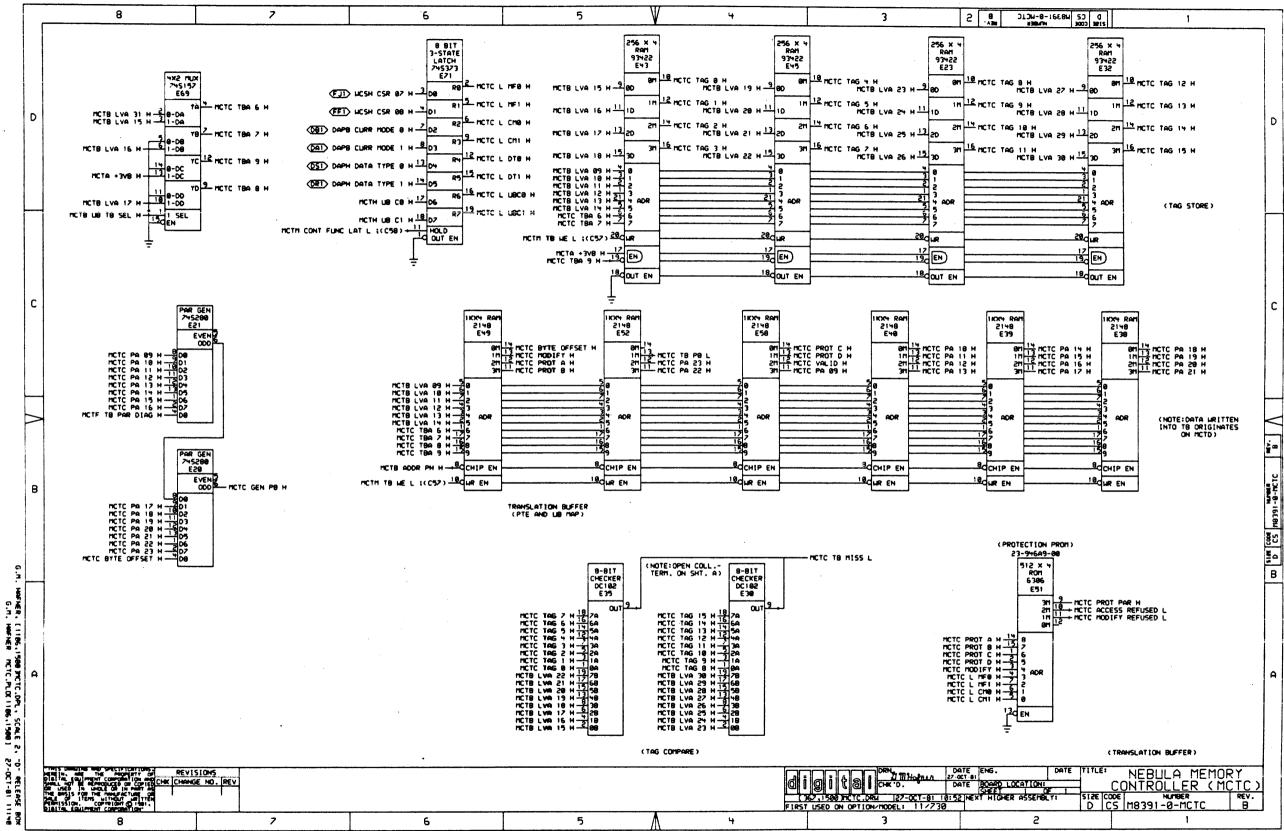
SIZE CODE DOCUMENT NUMBER REV

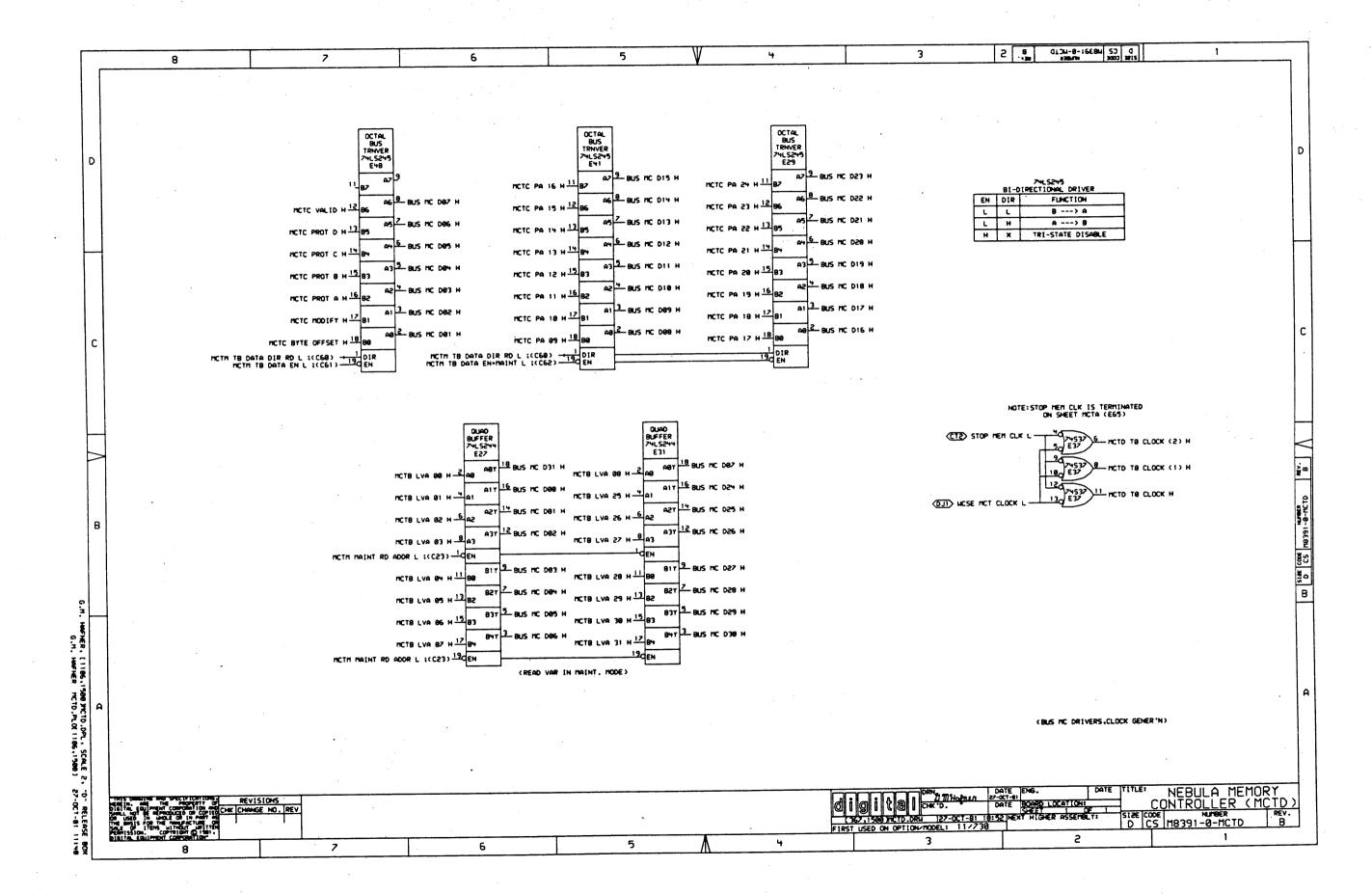
K PL M8391-0-DBP B

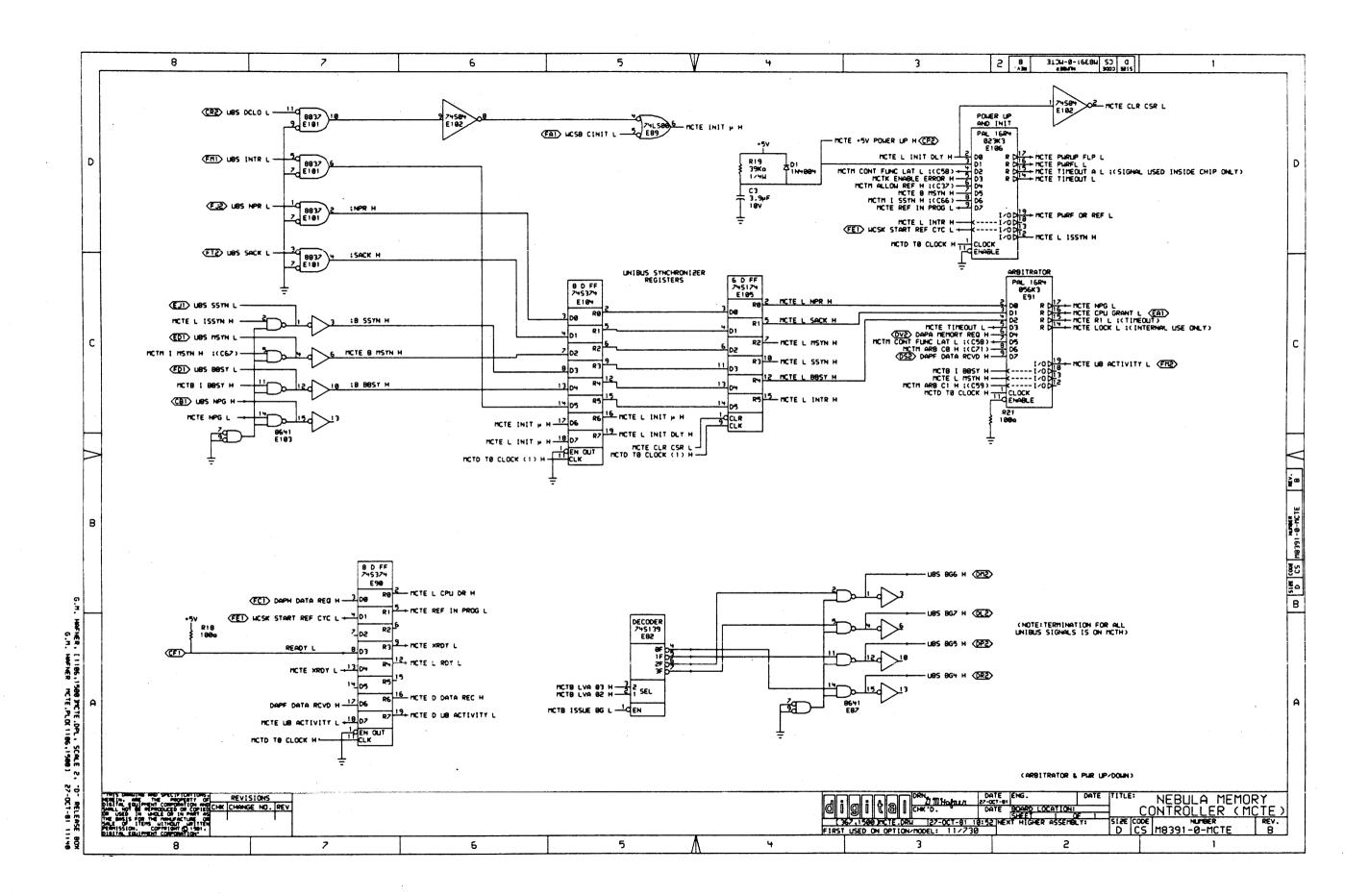


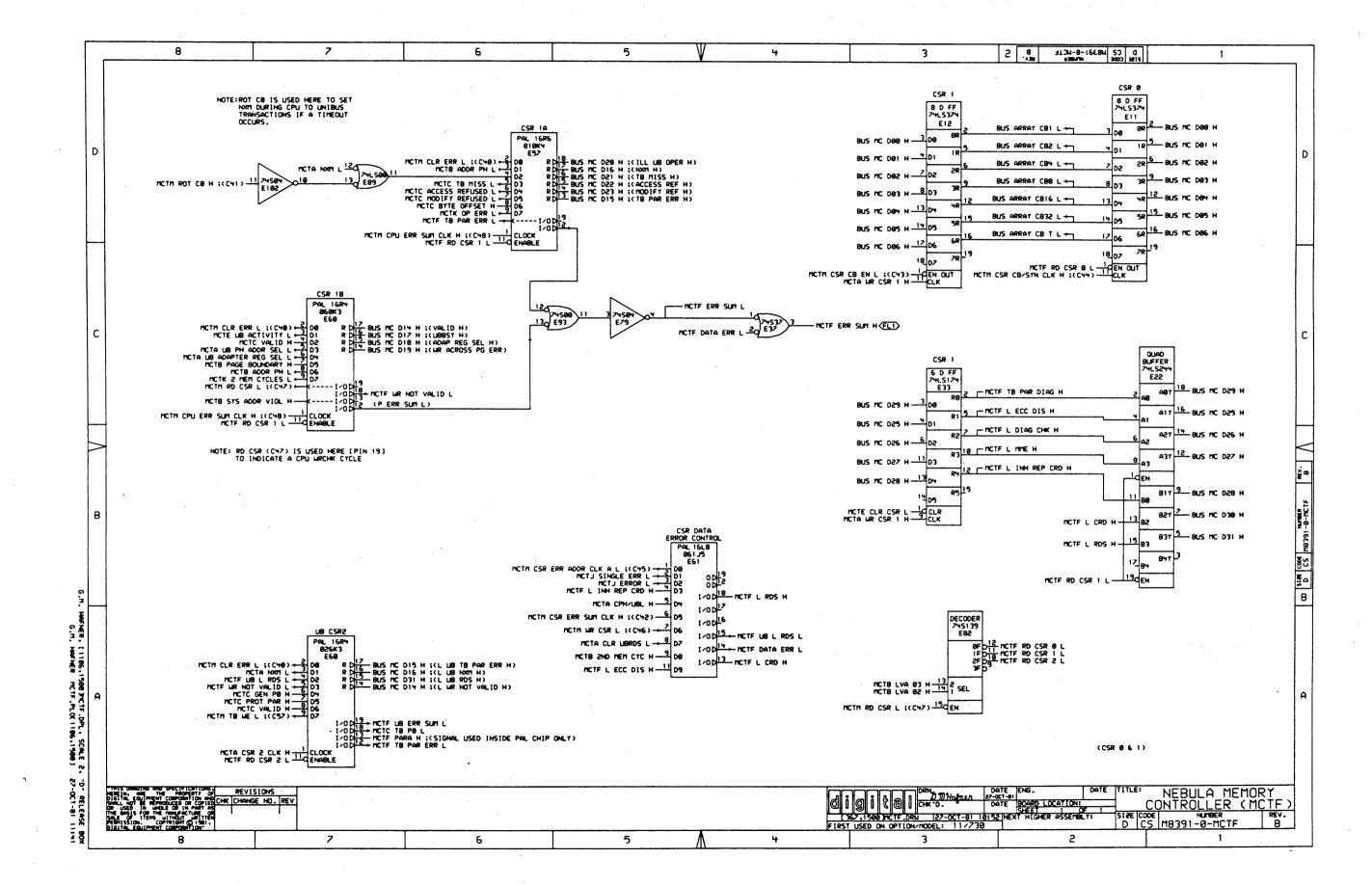
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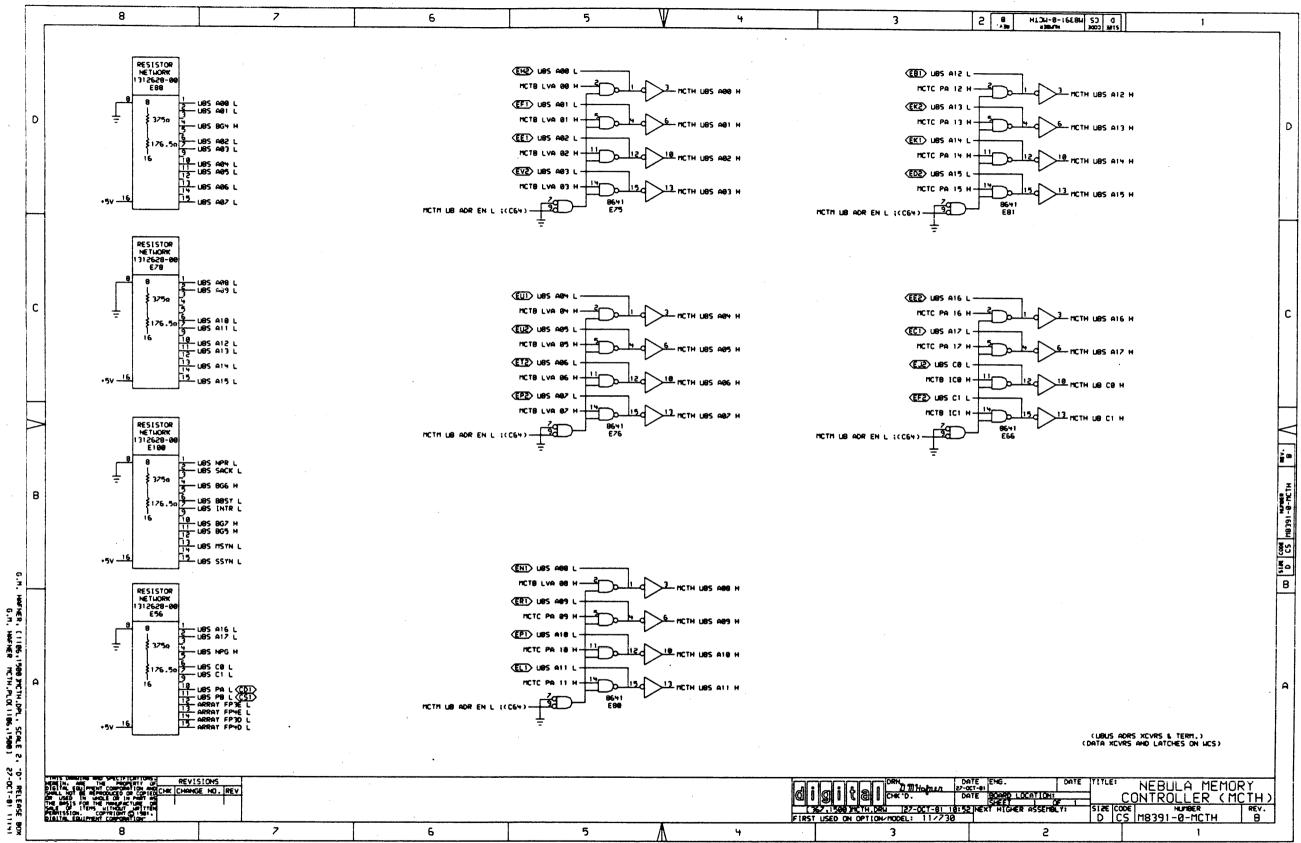


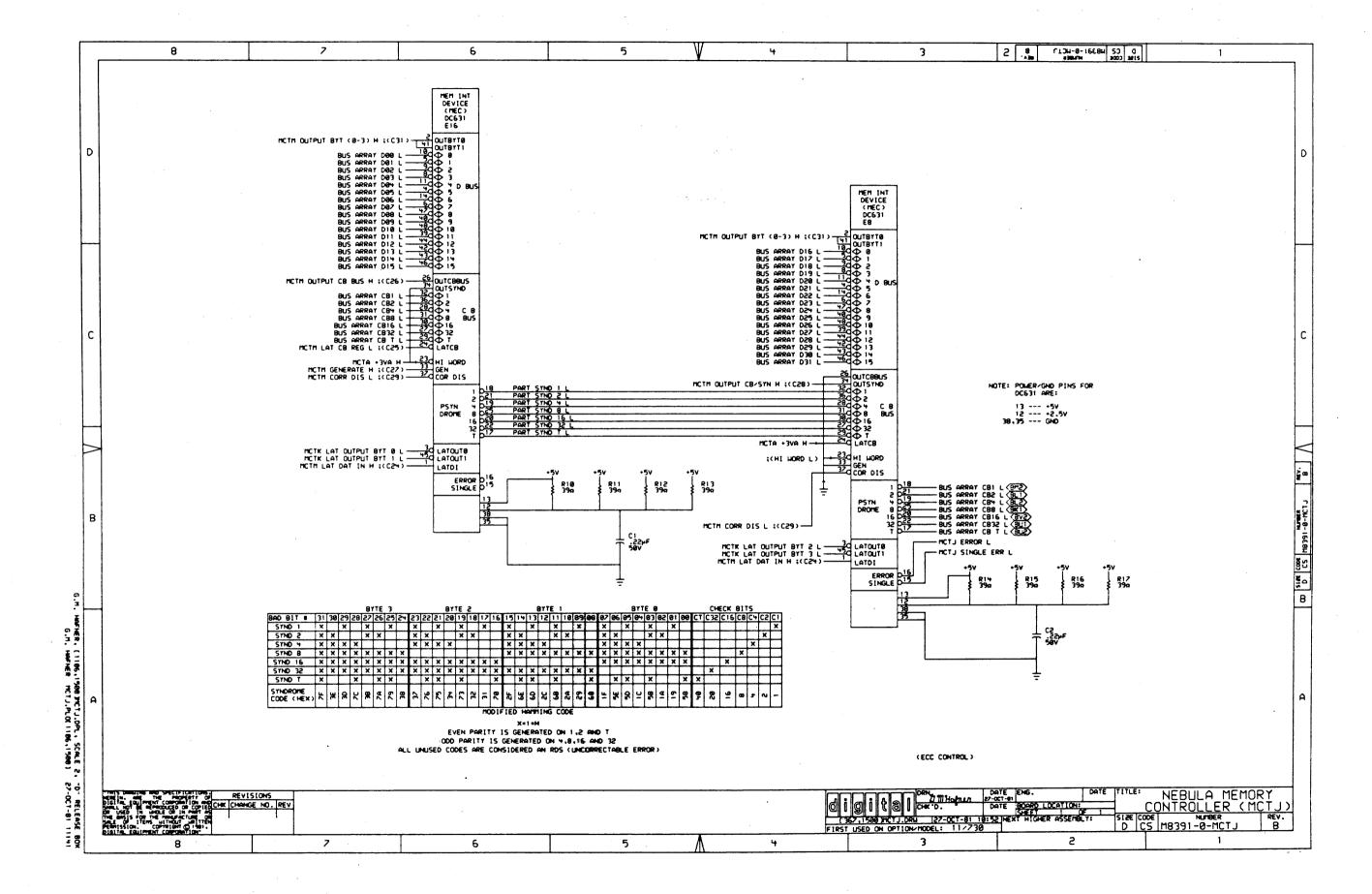


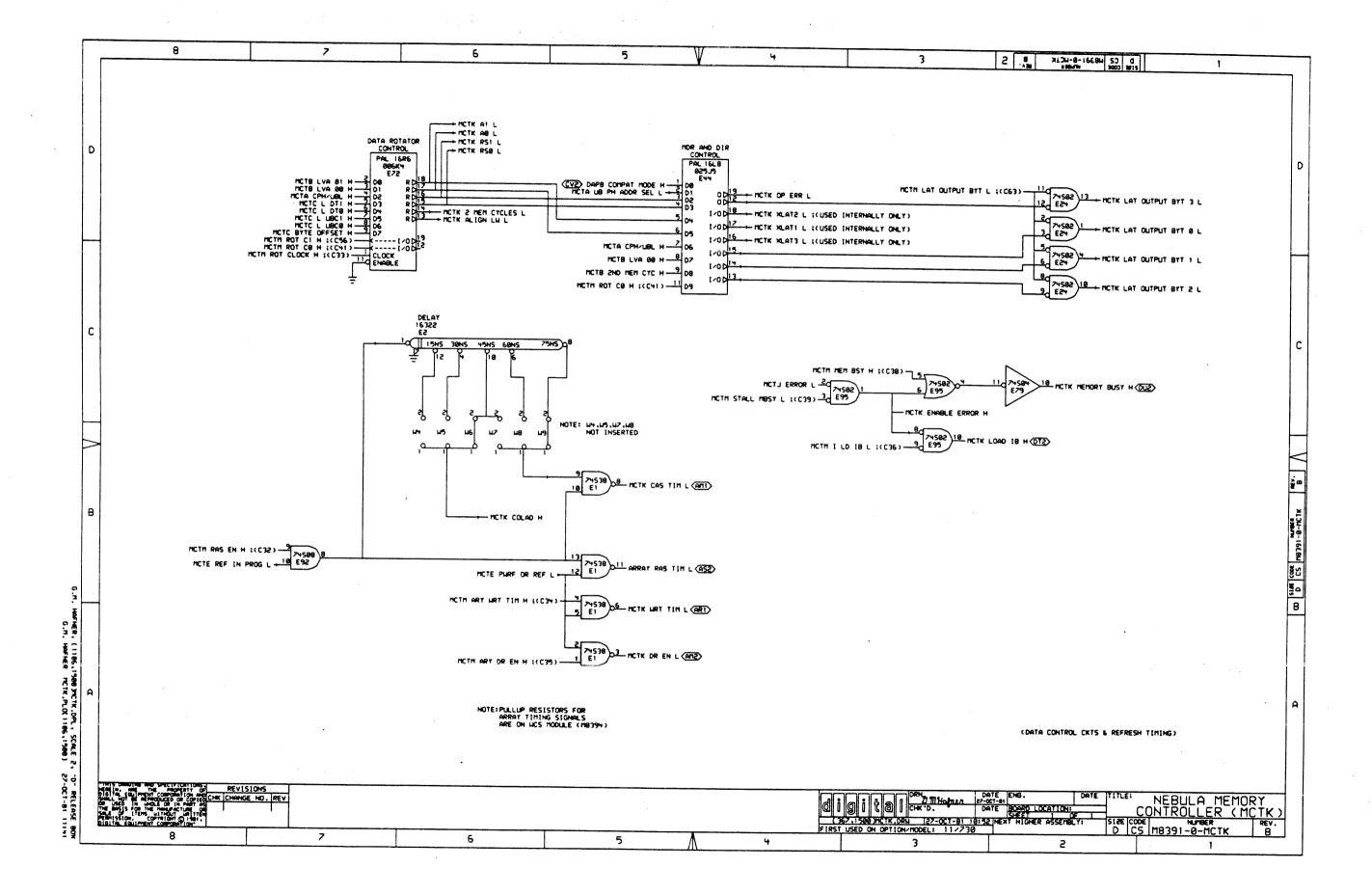


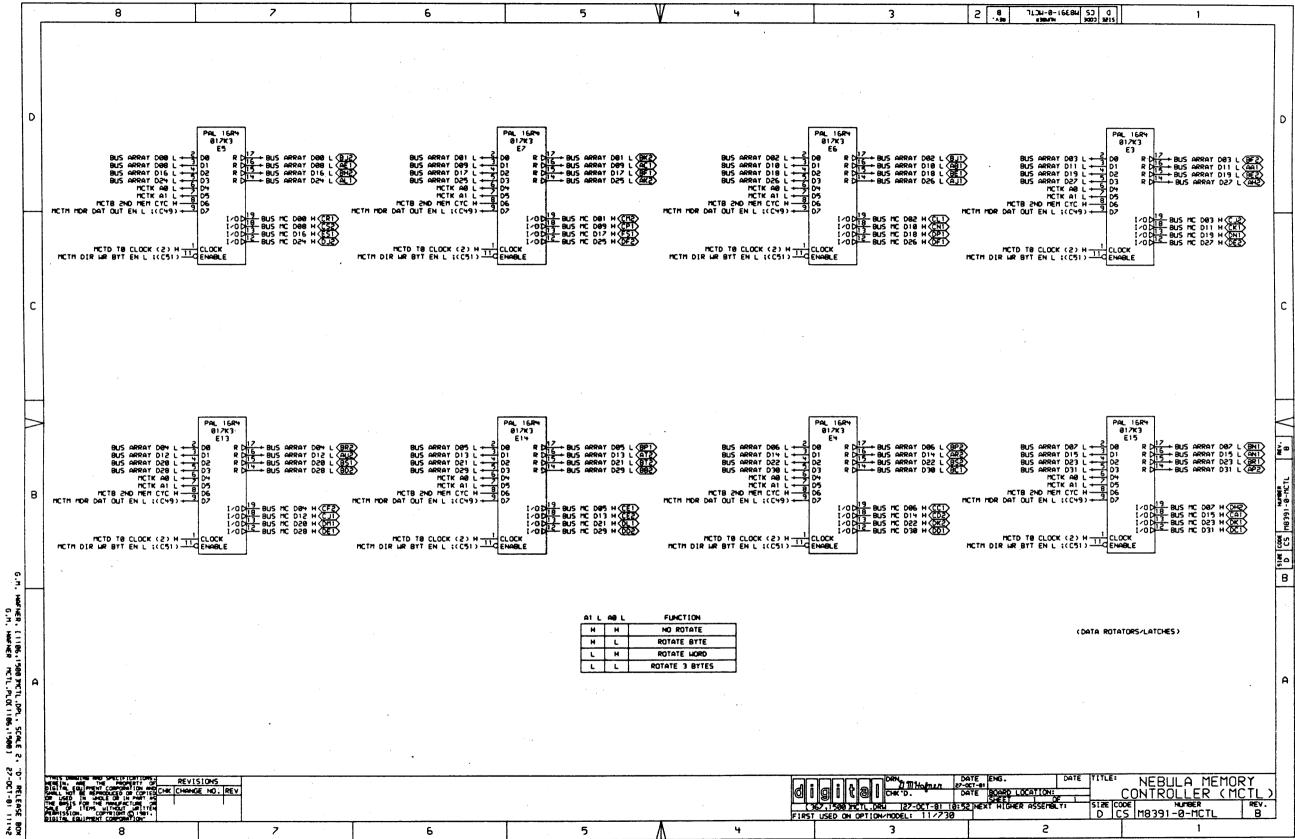


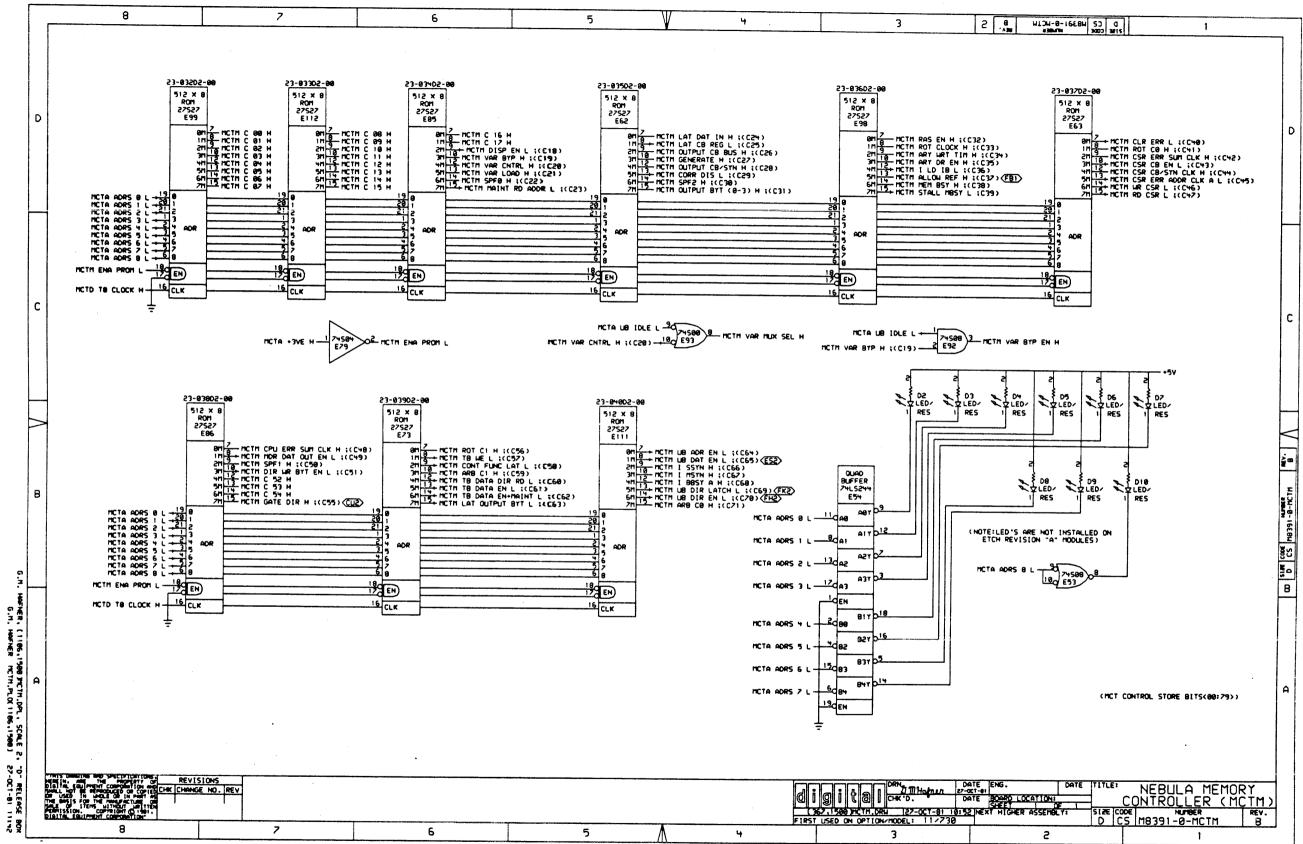


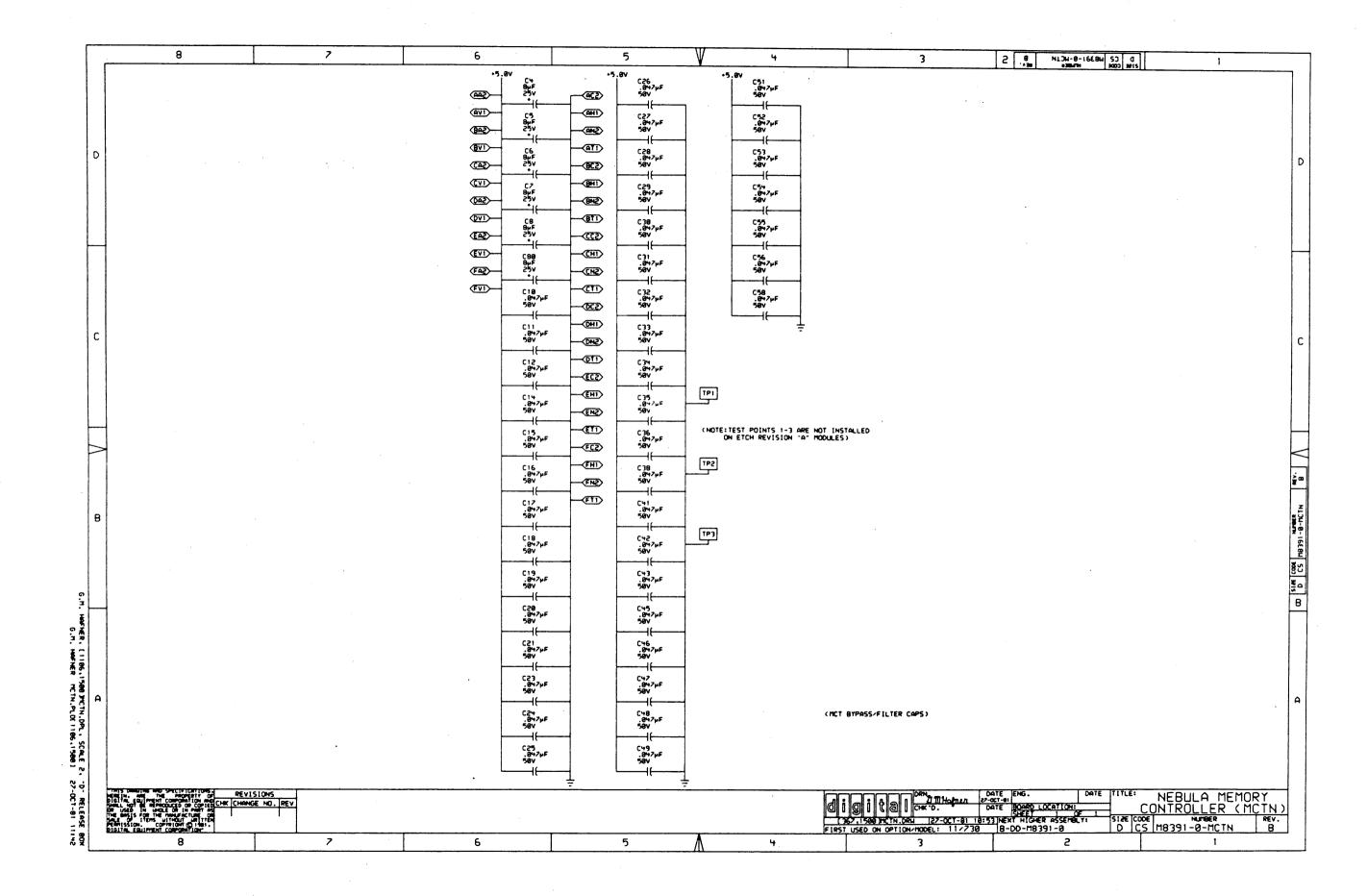


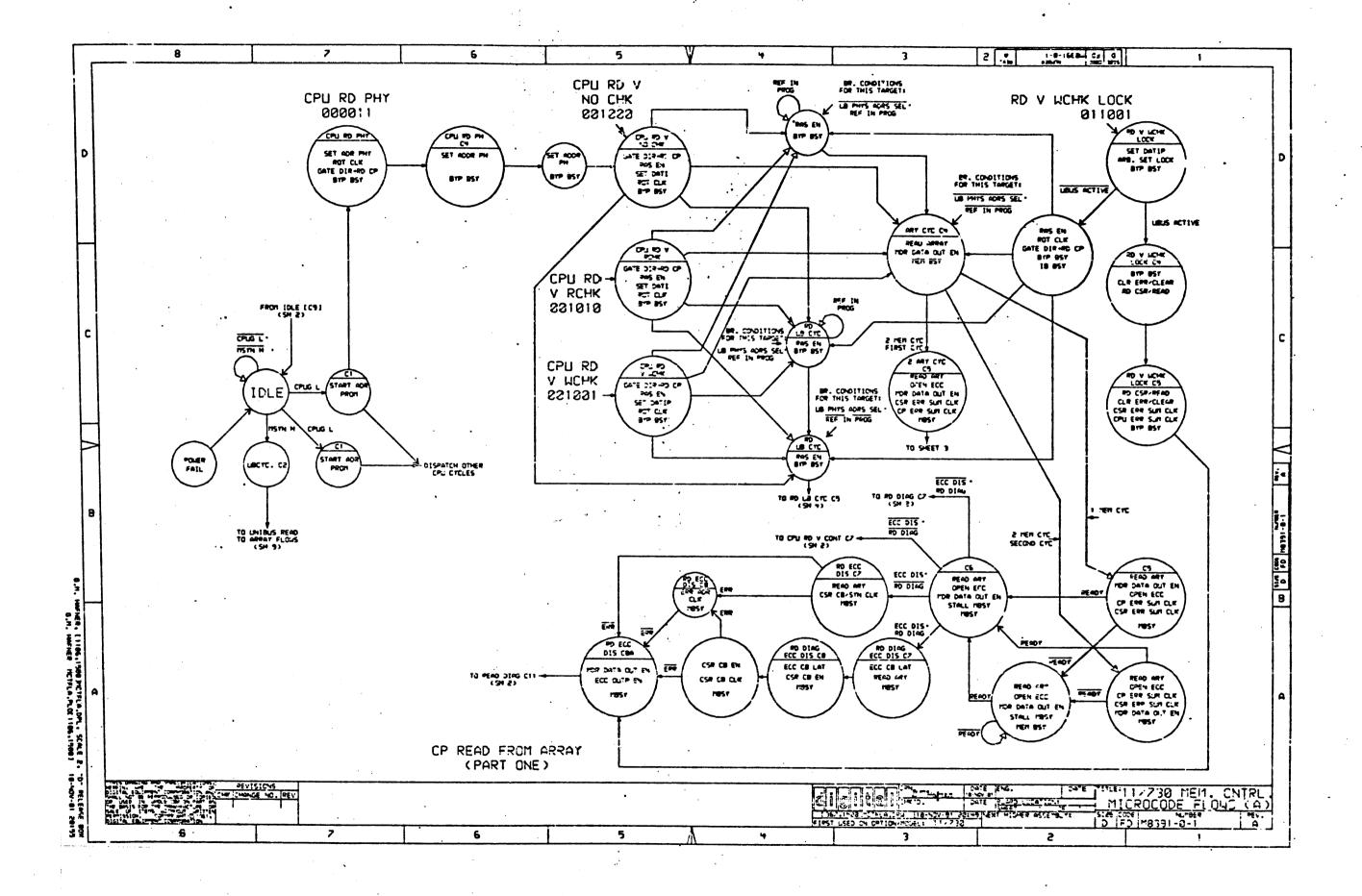


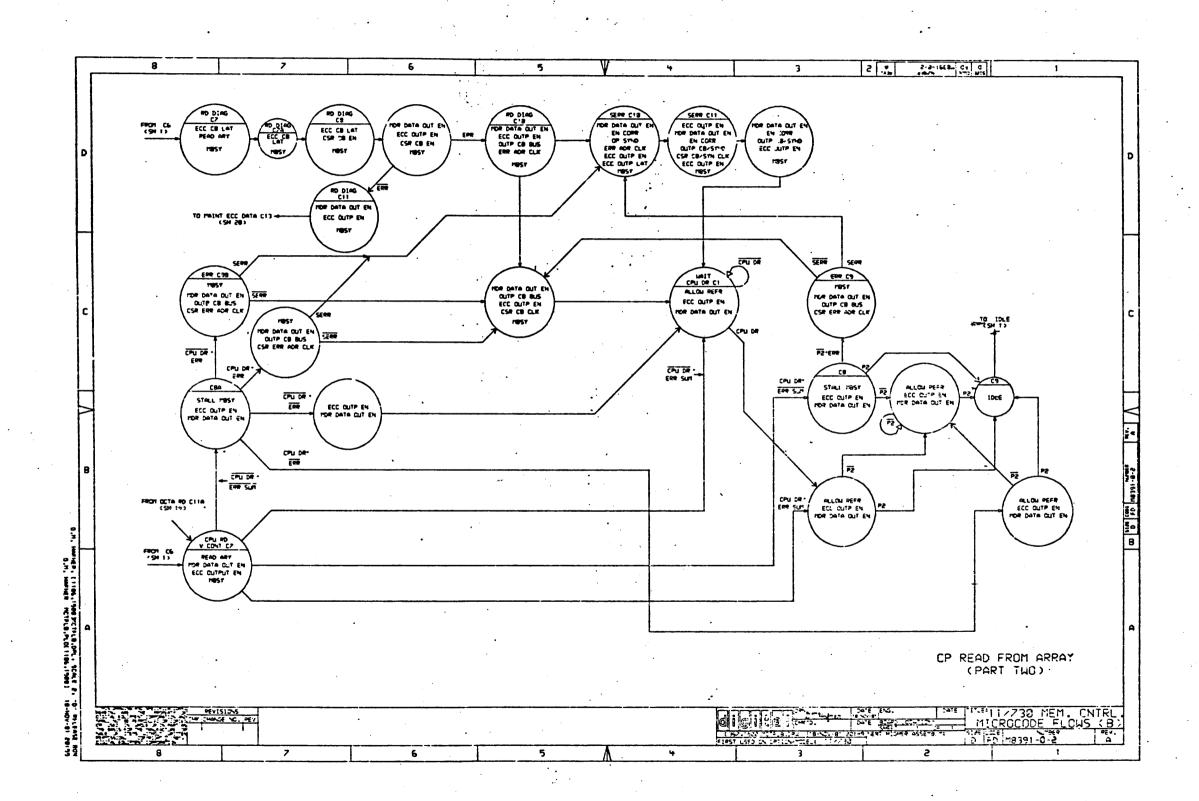


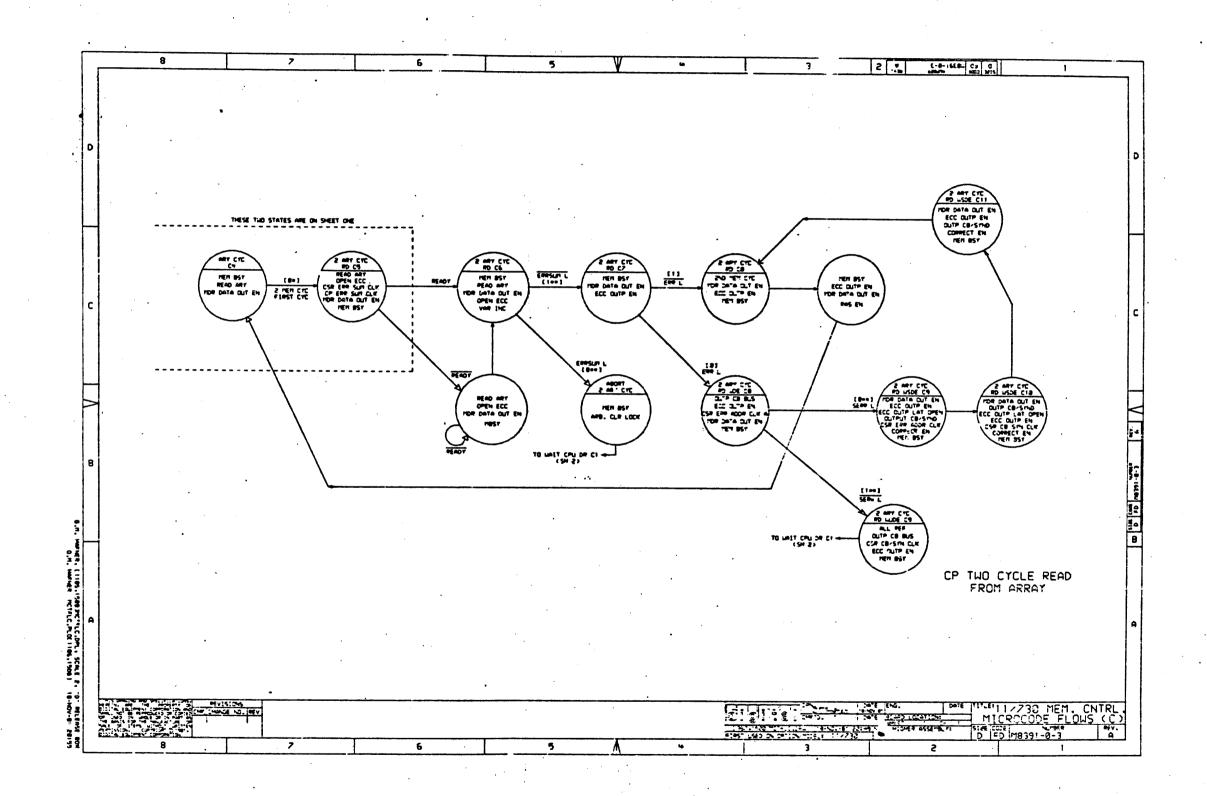


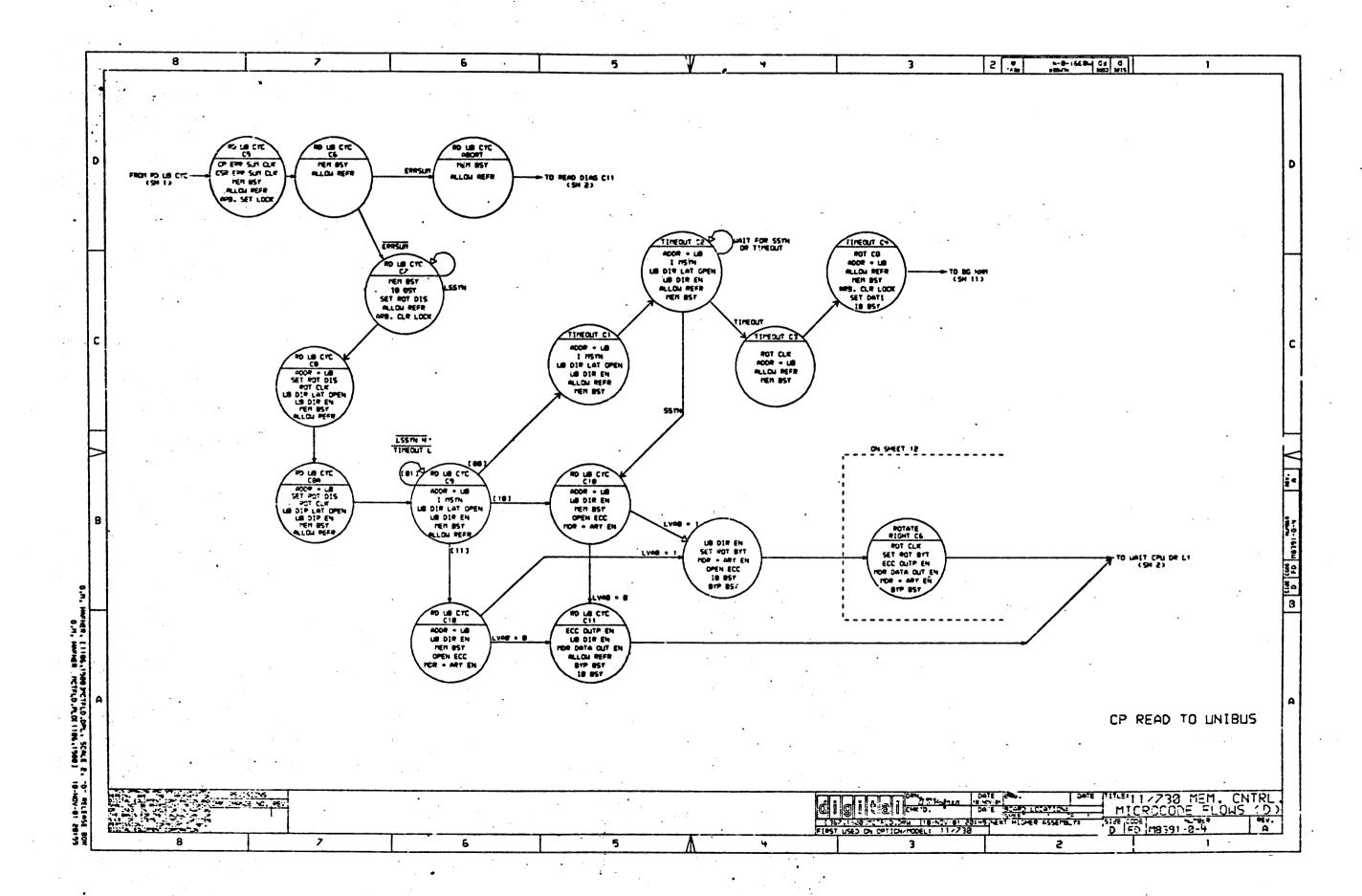


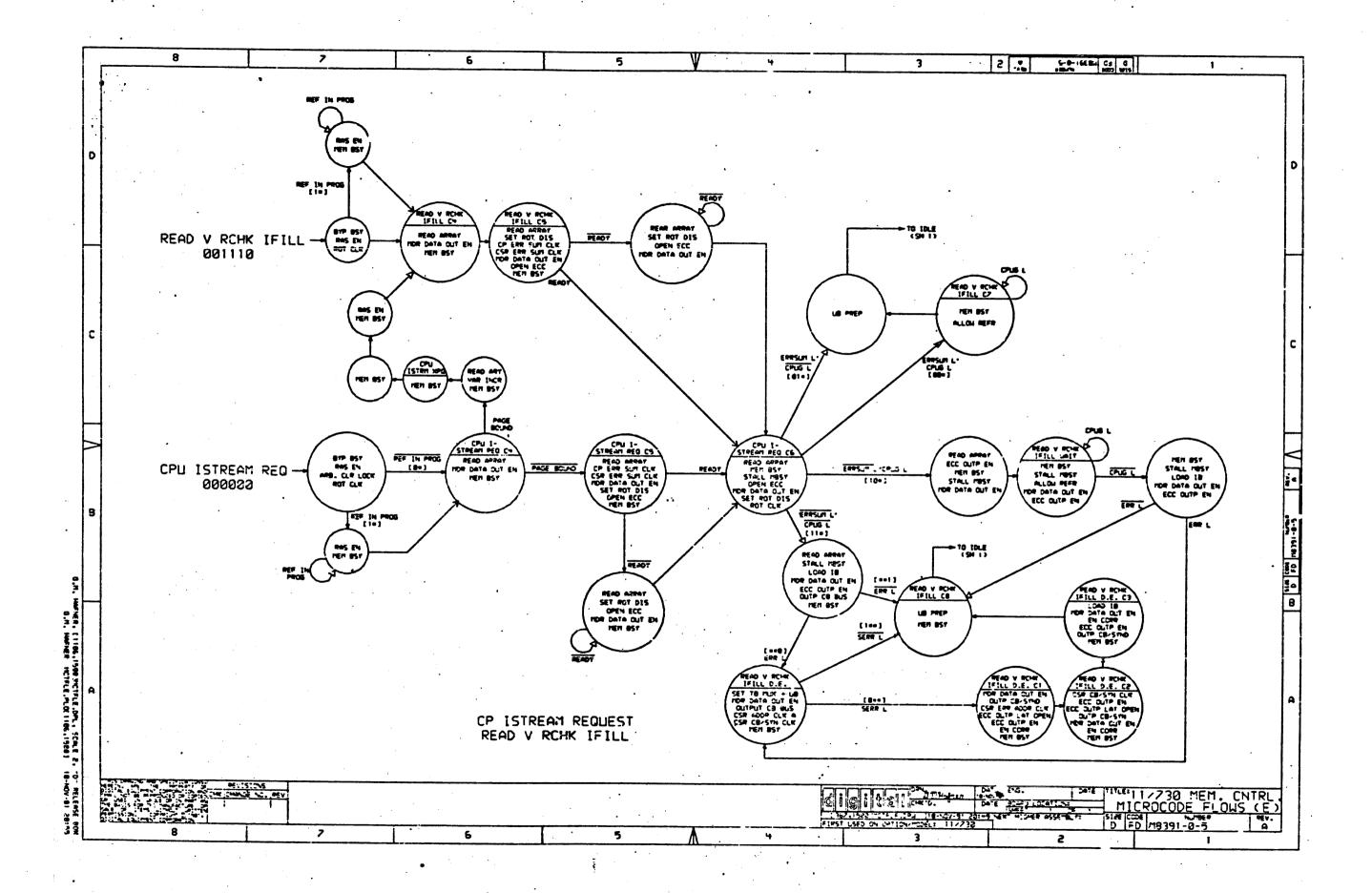


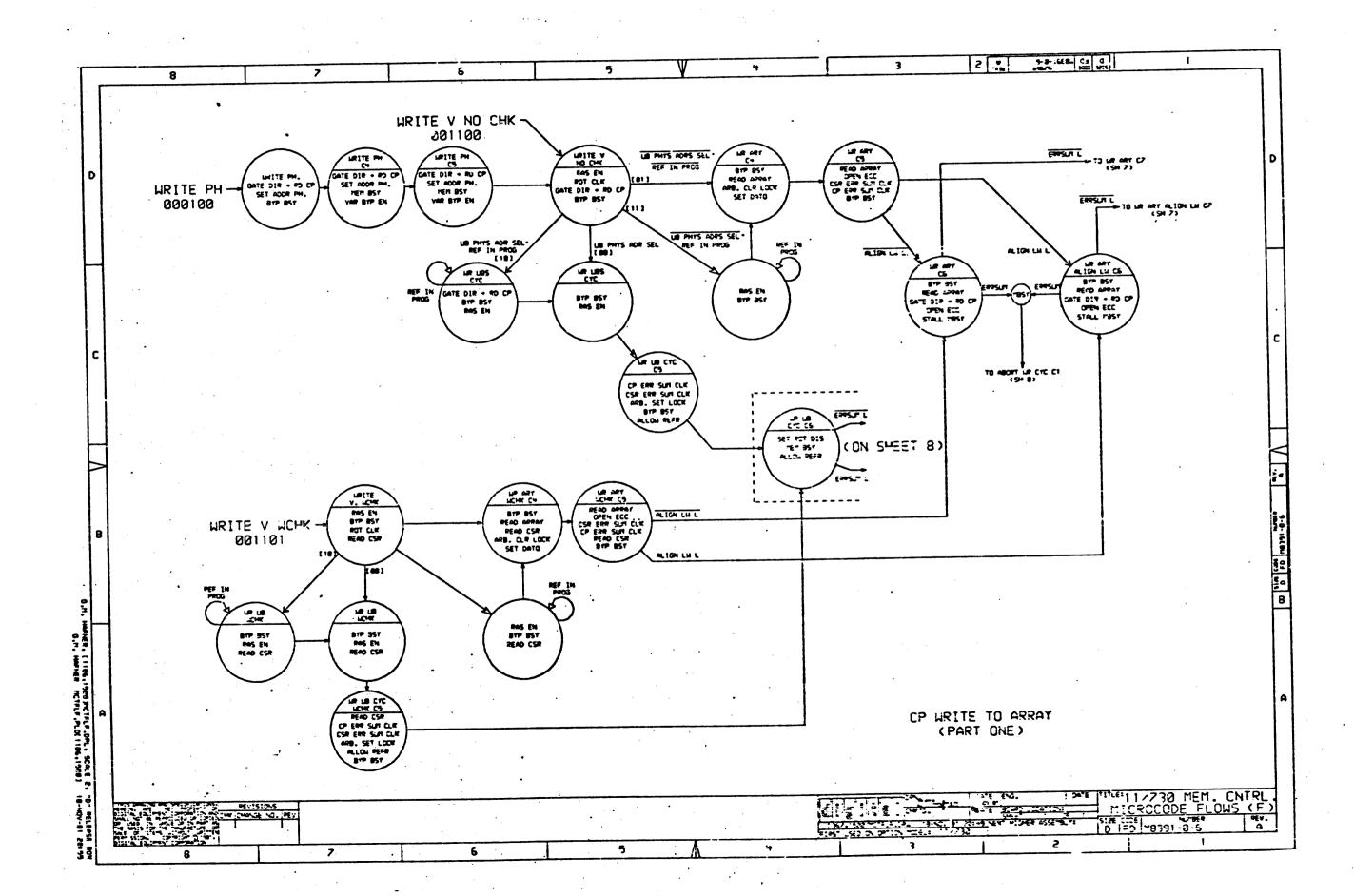


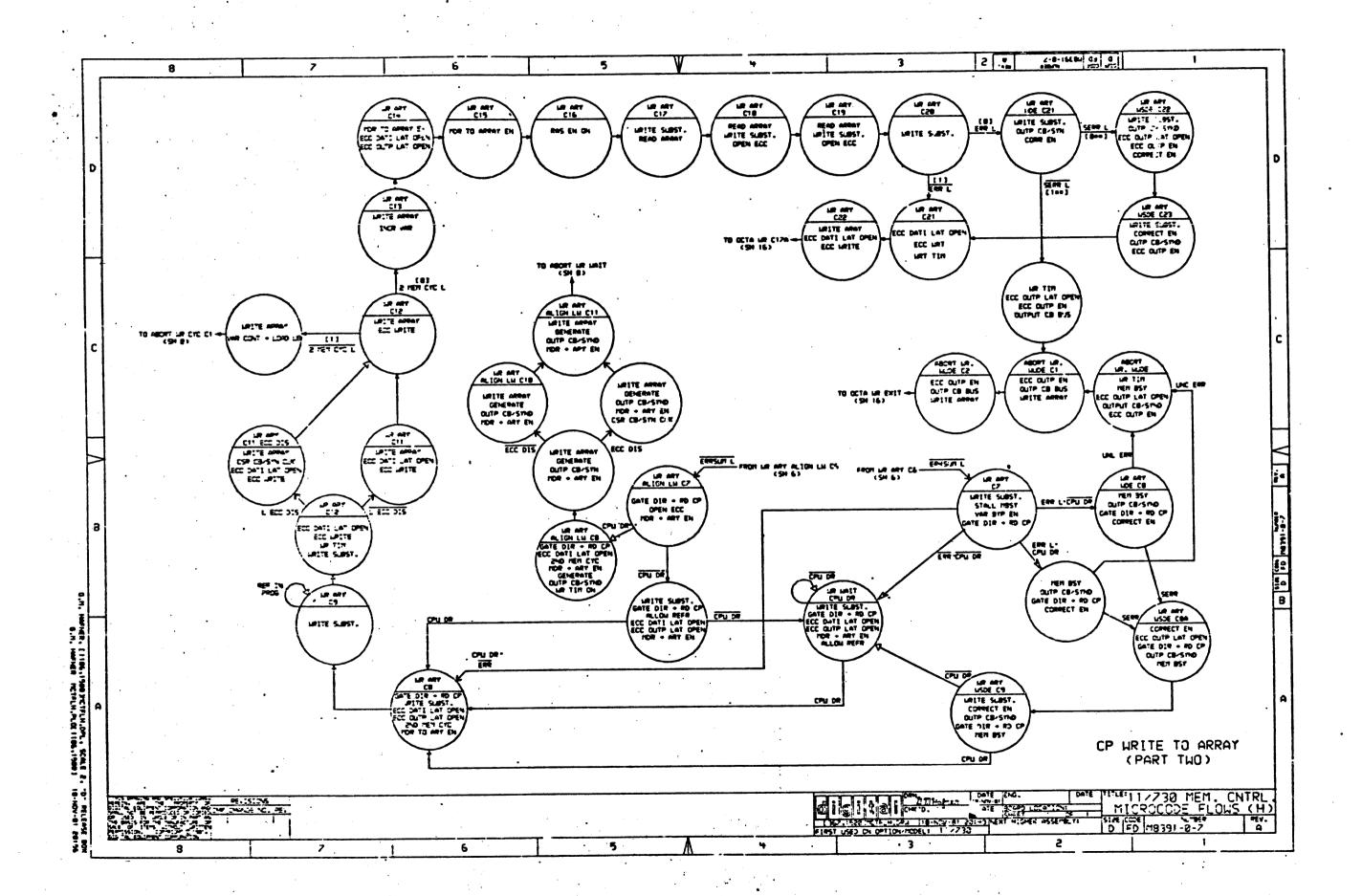


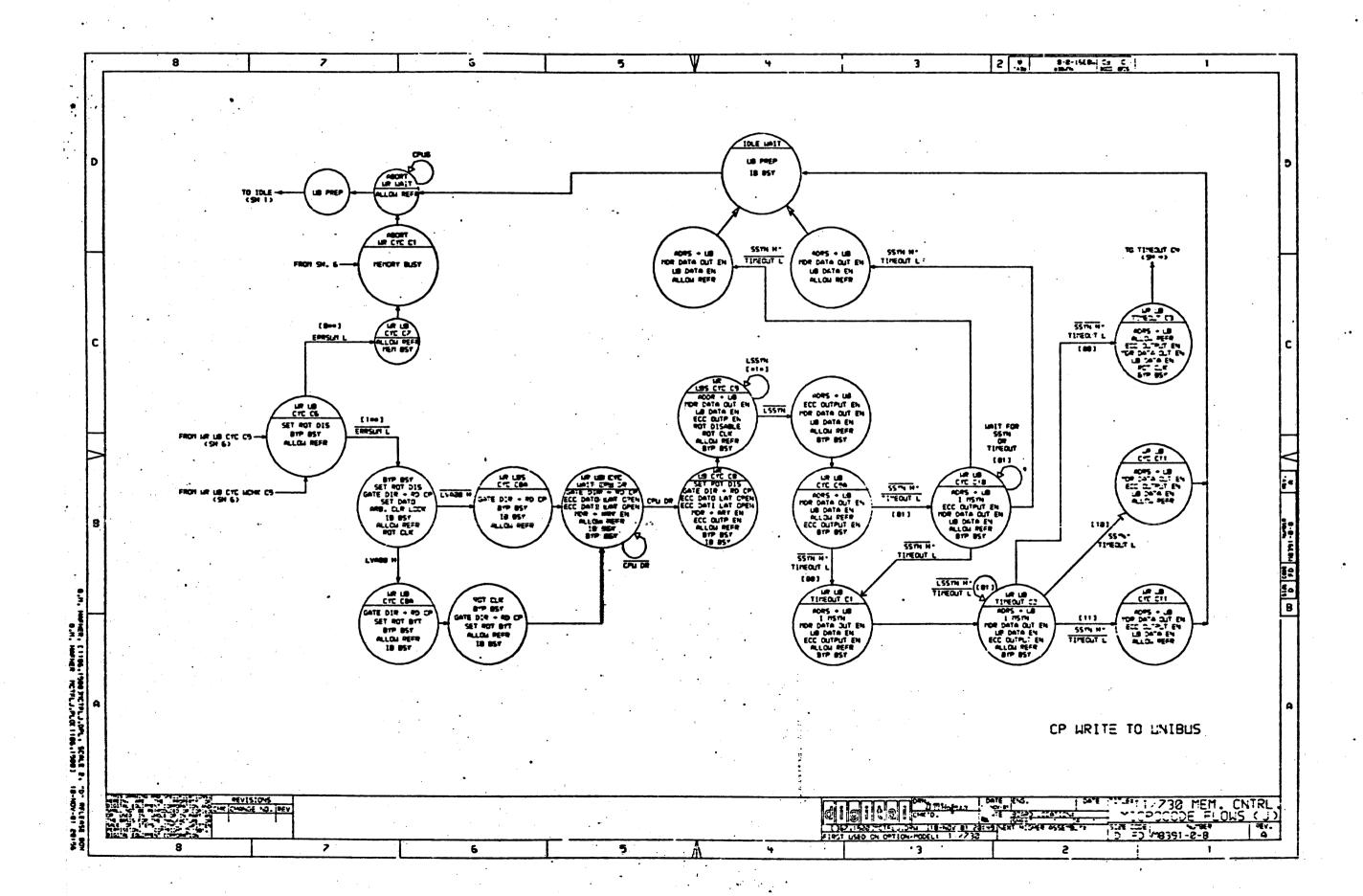


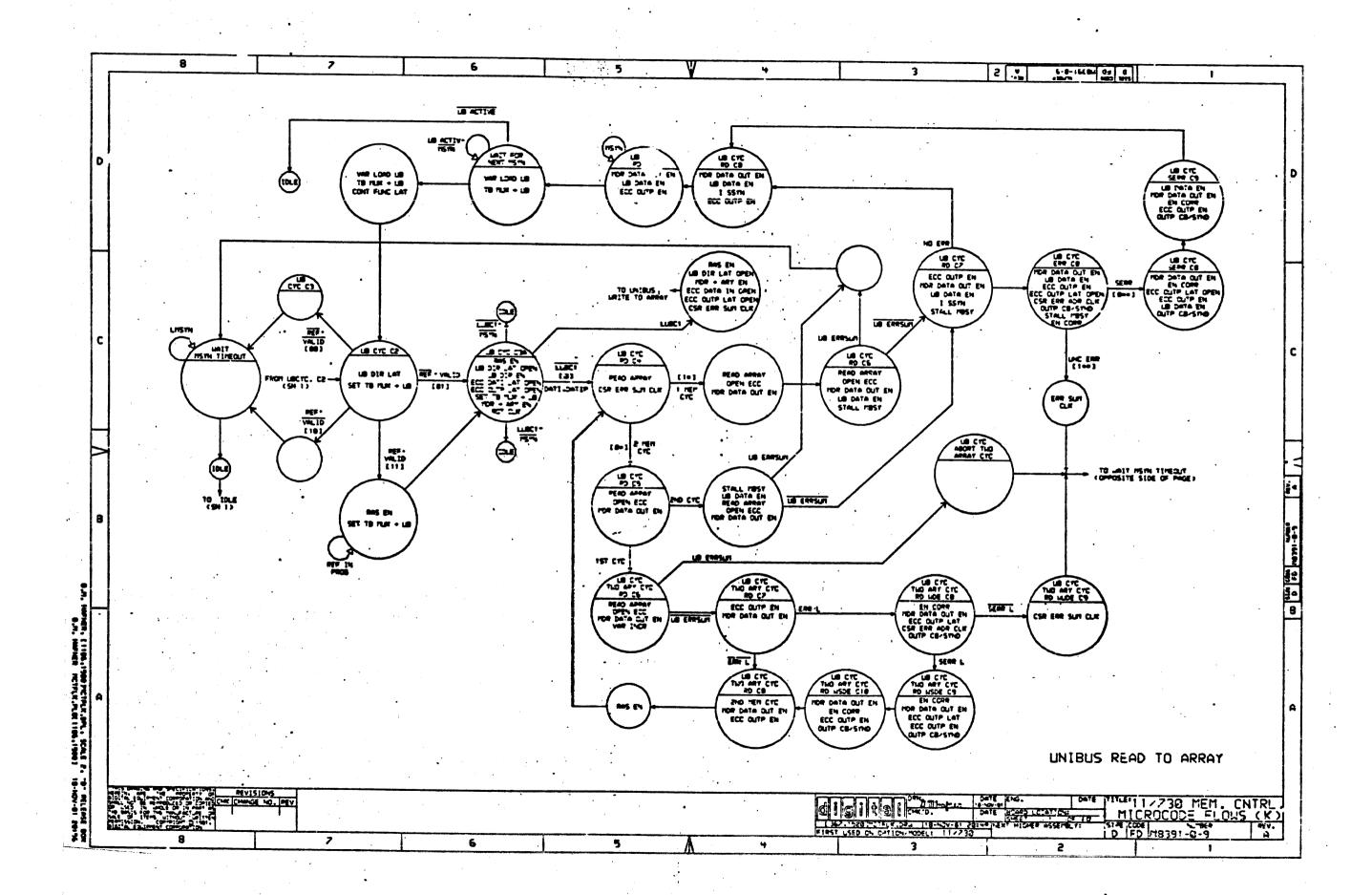


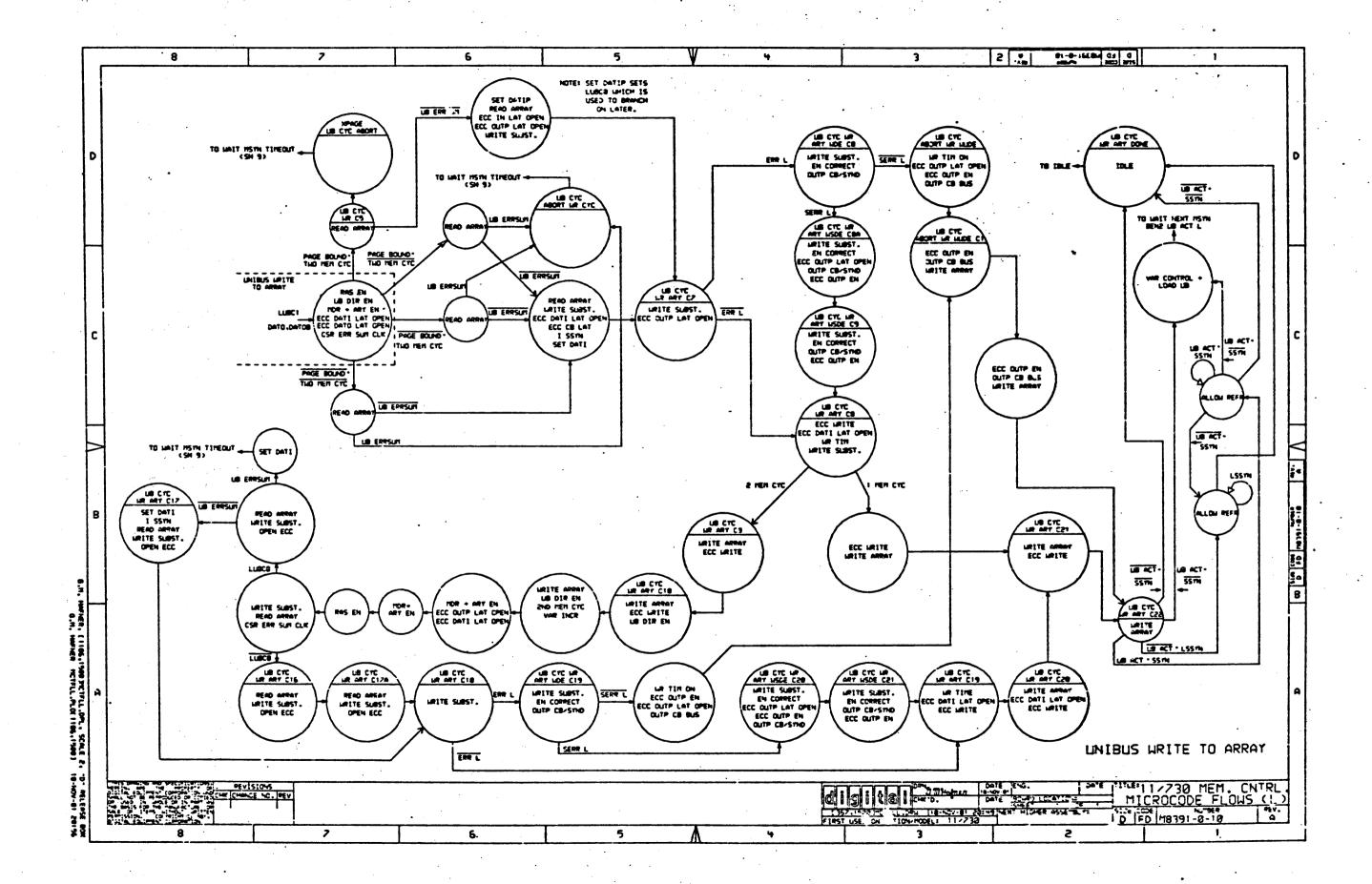


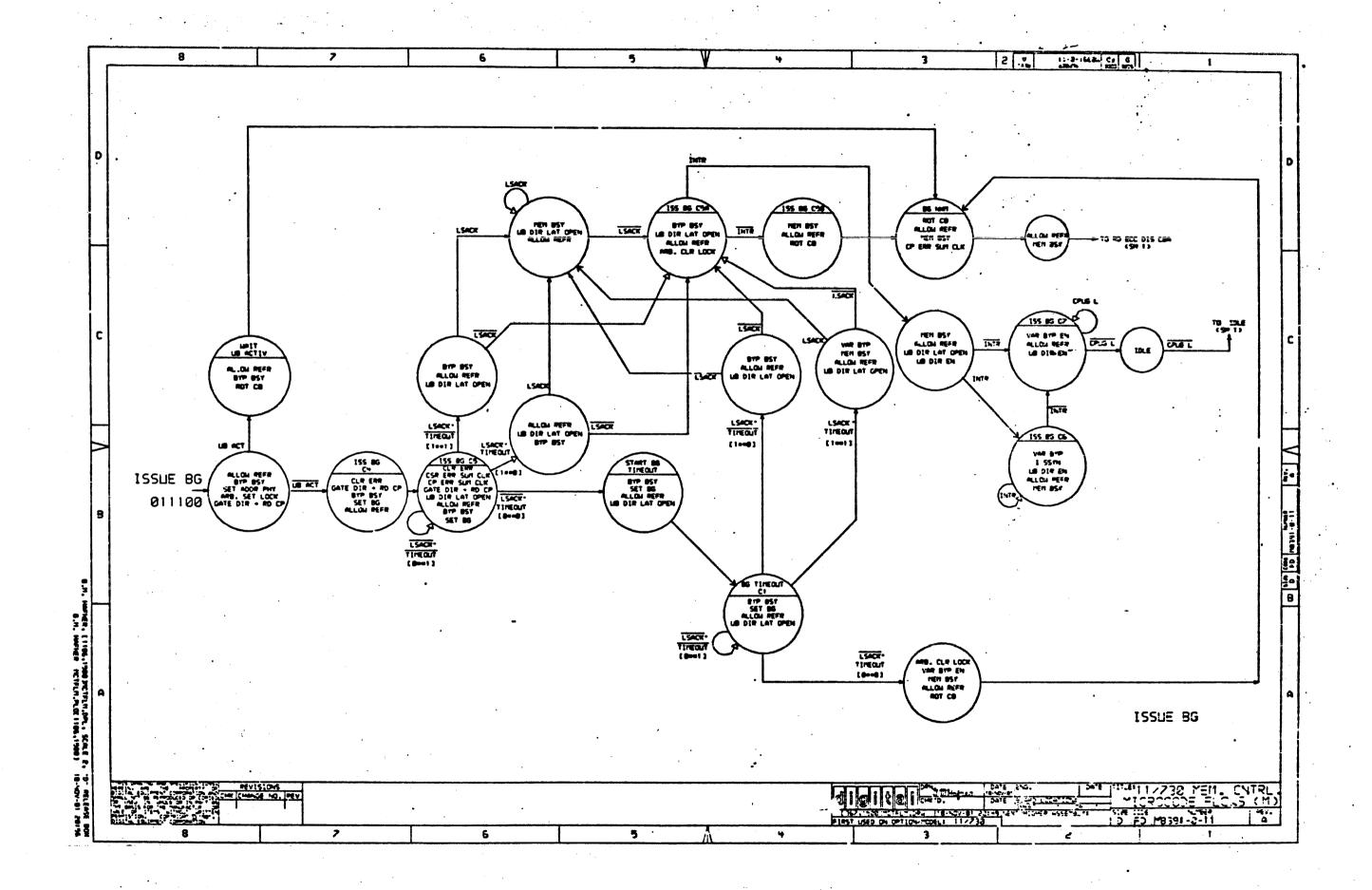


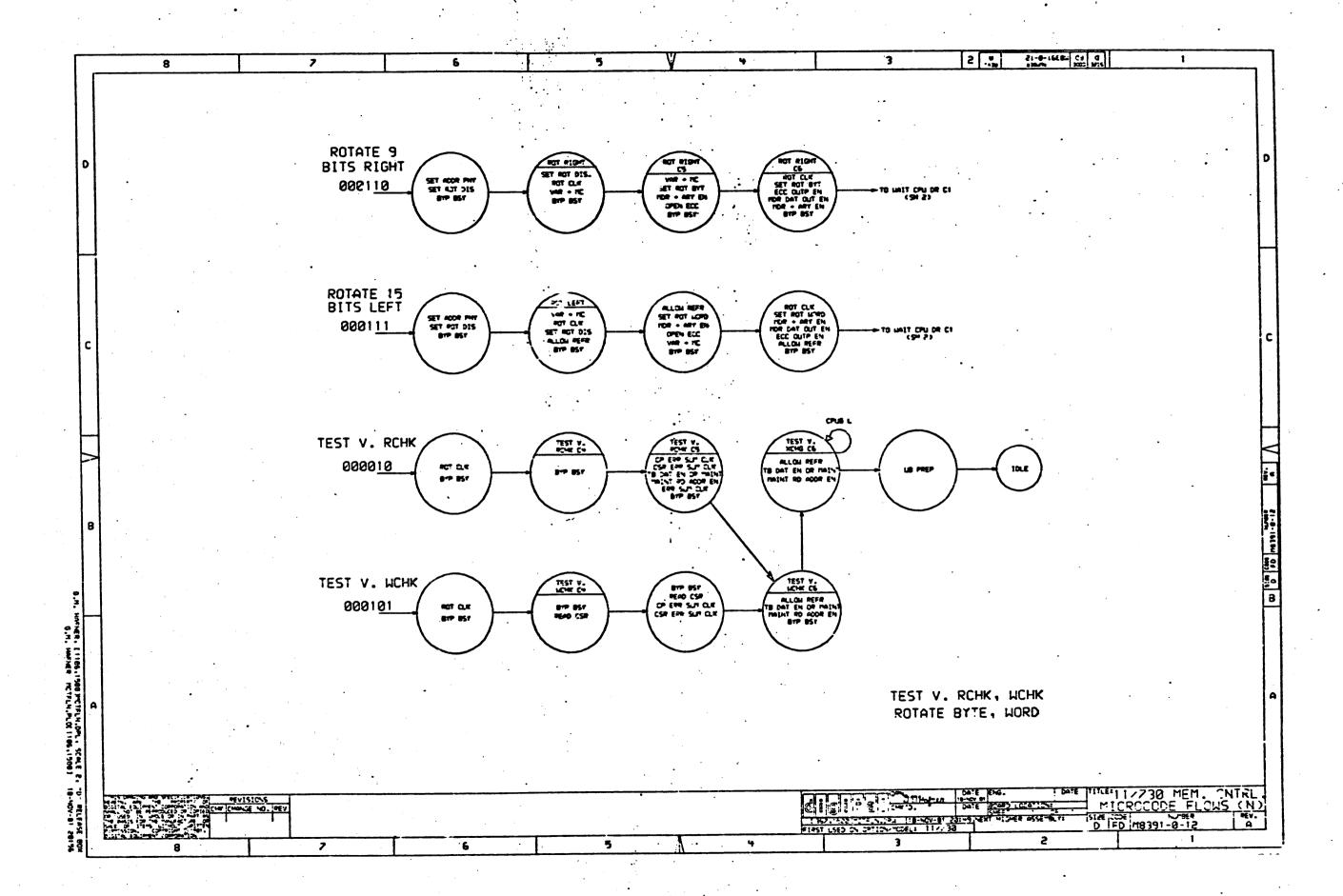


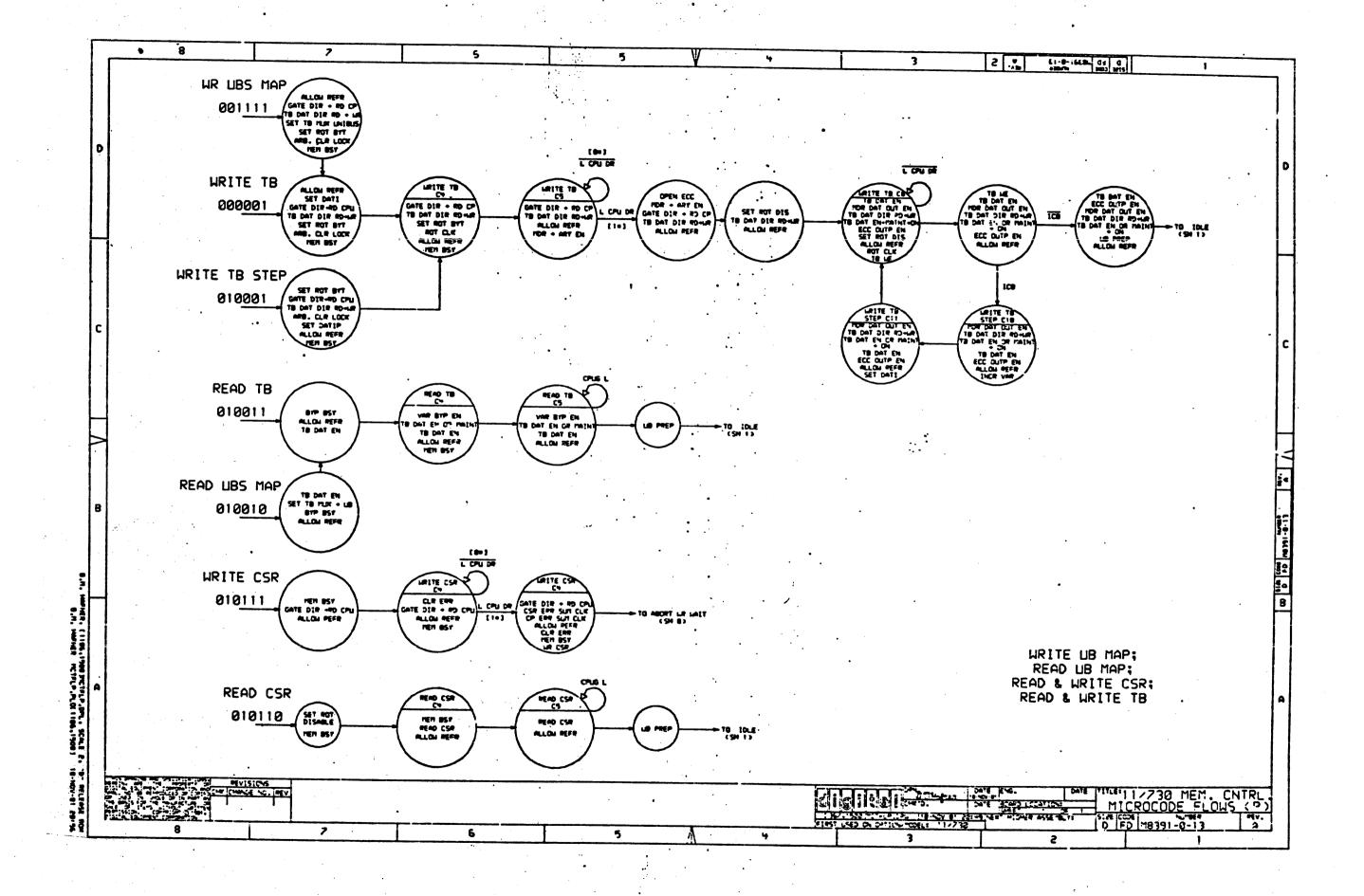


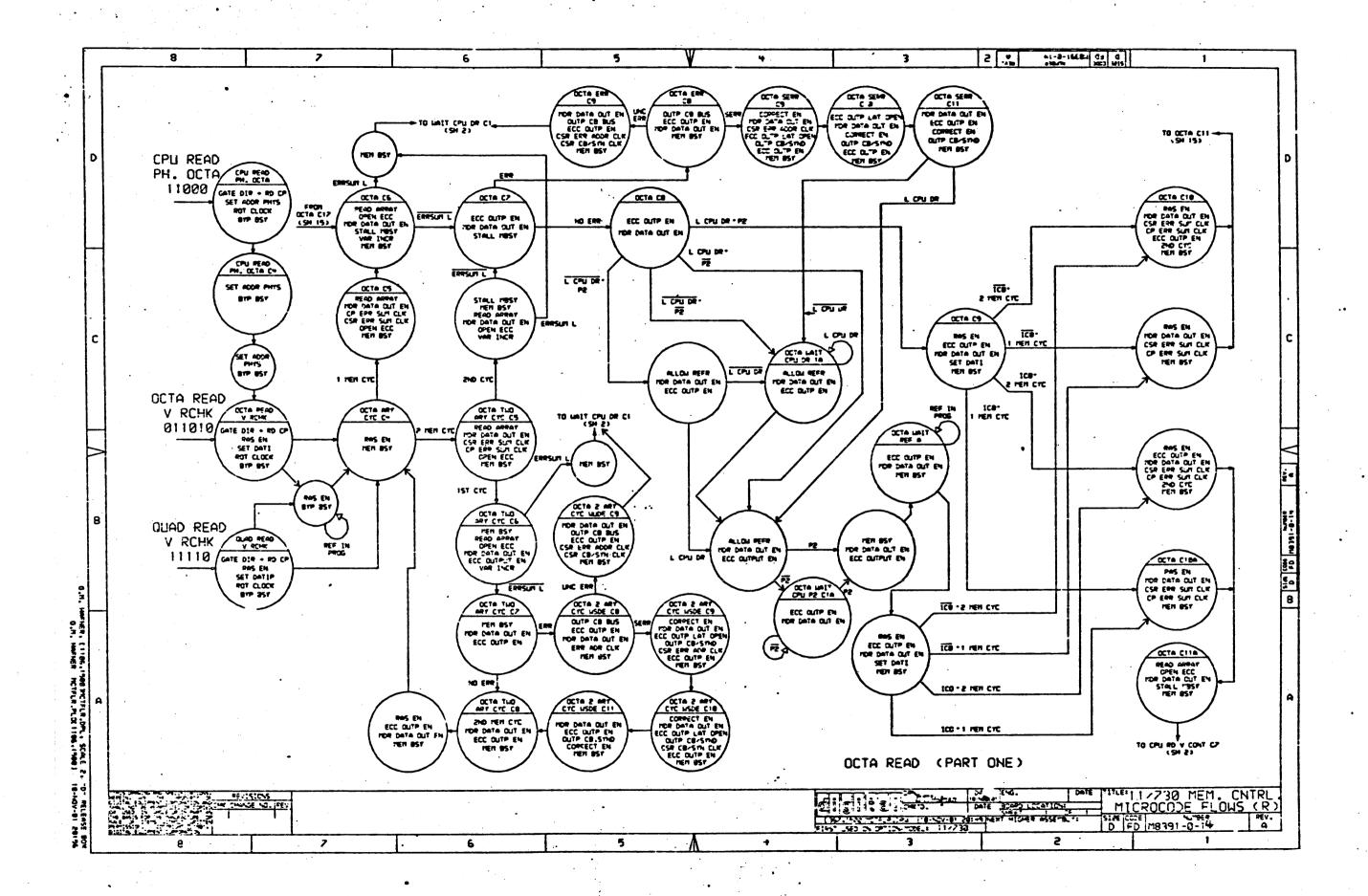


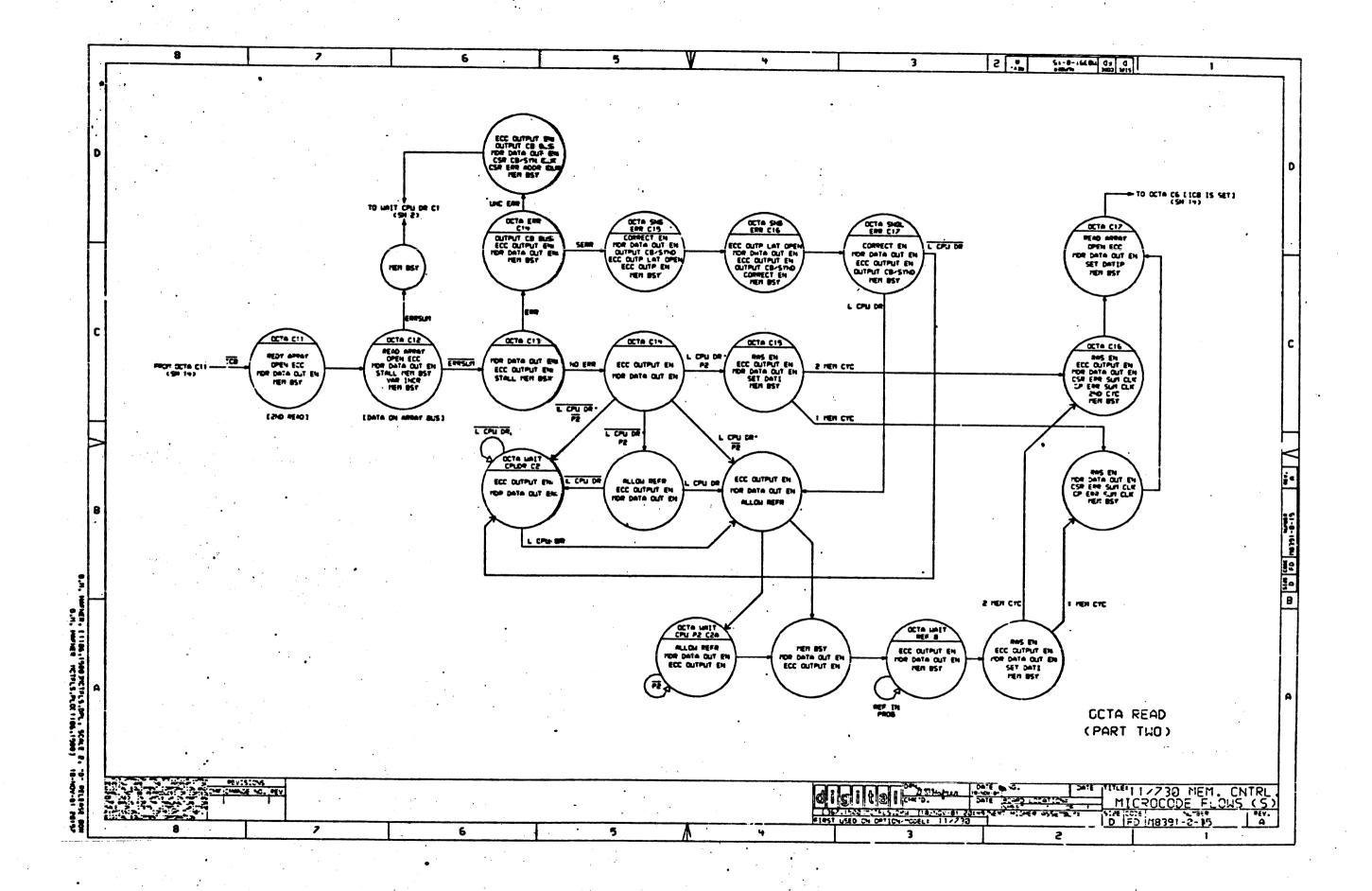


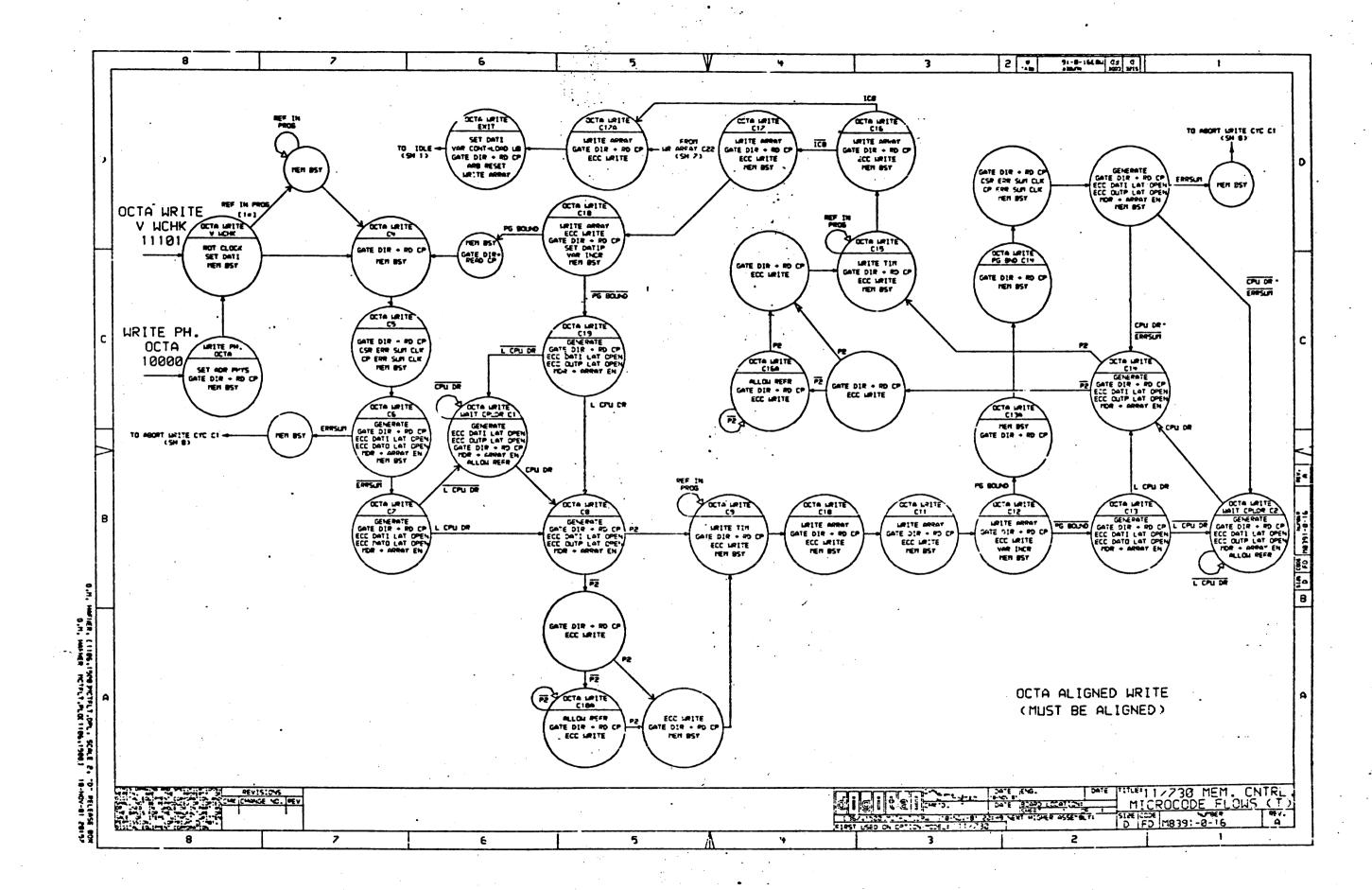


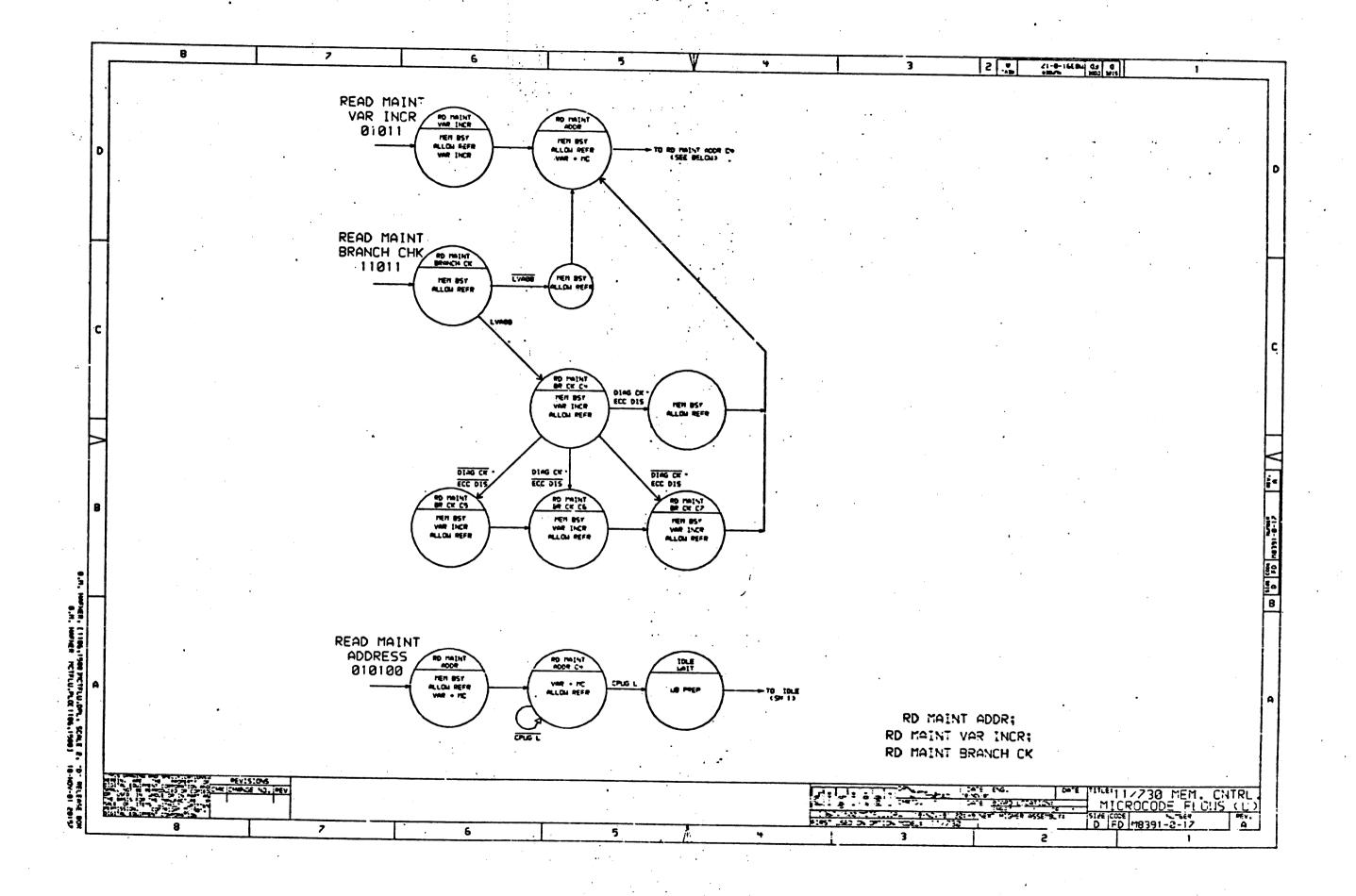


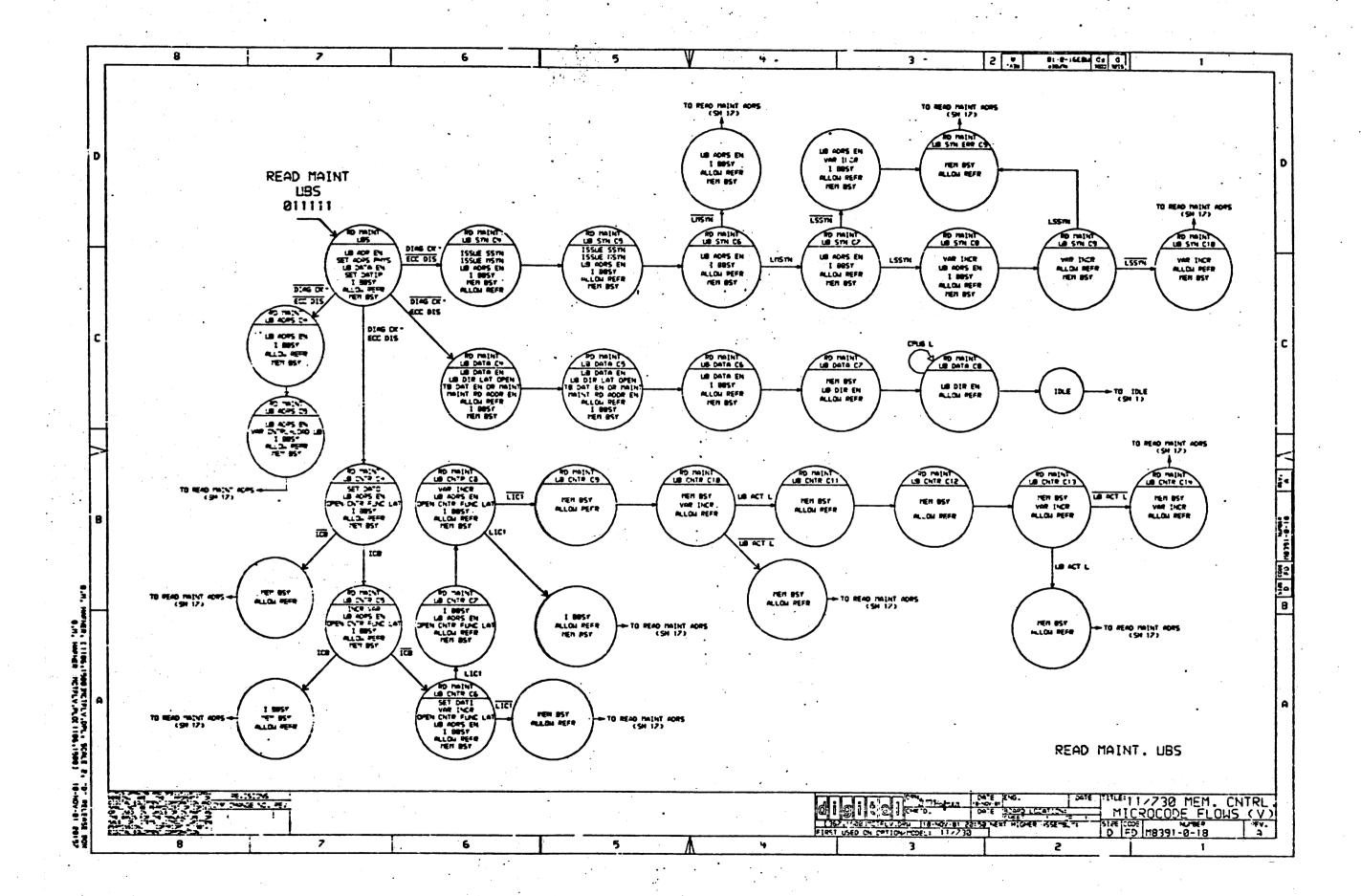


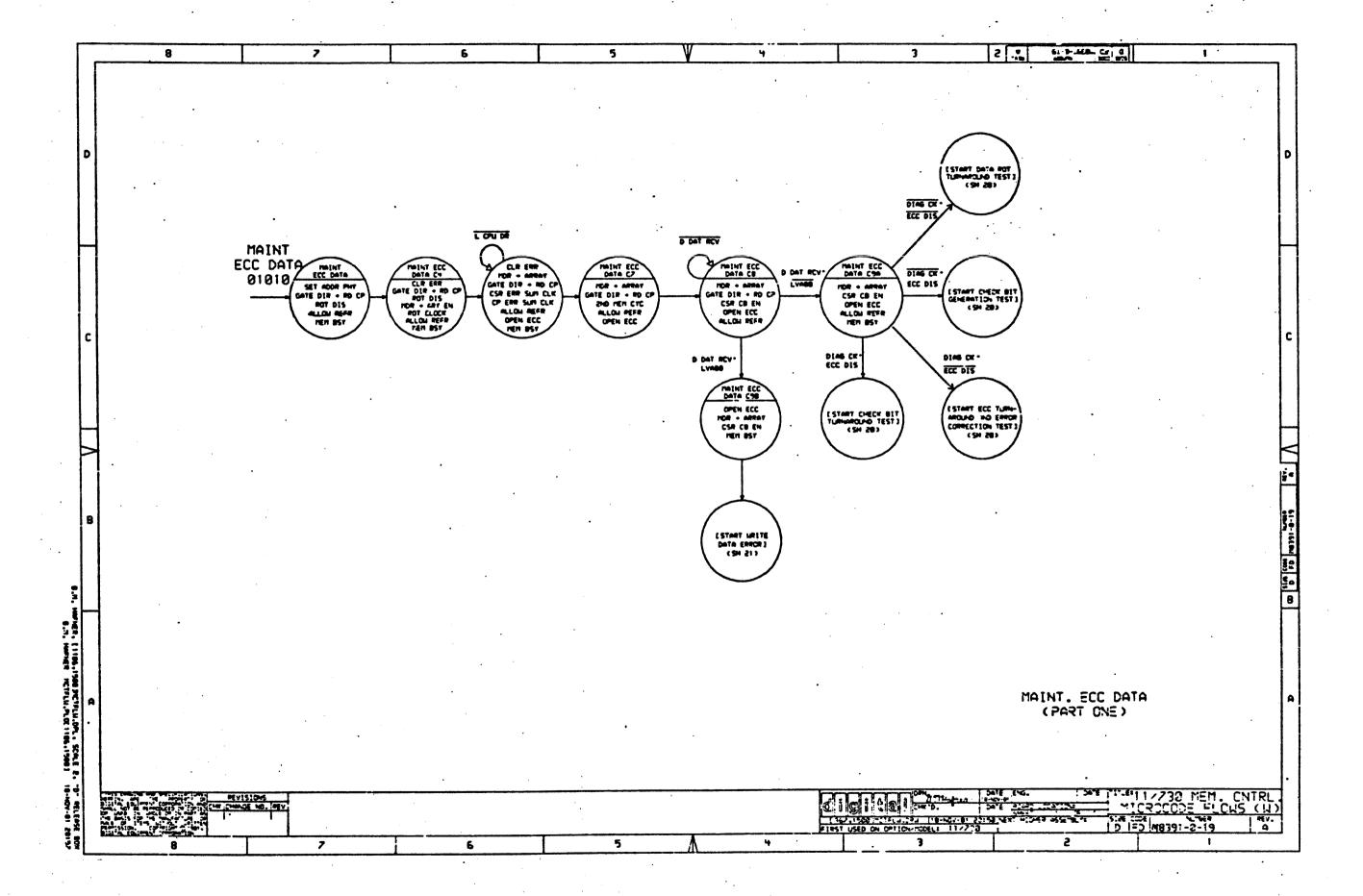


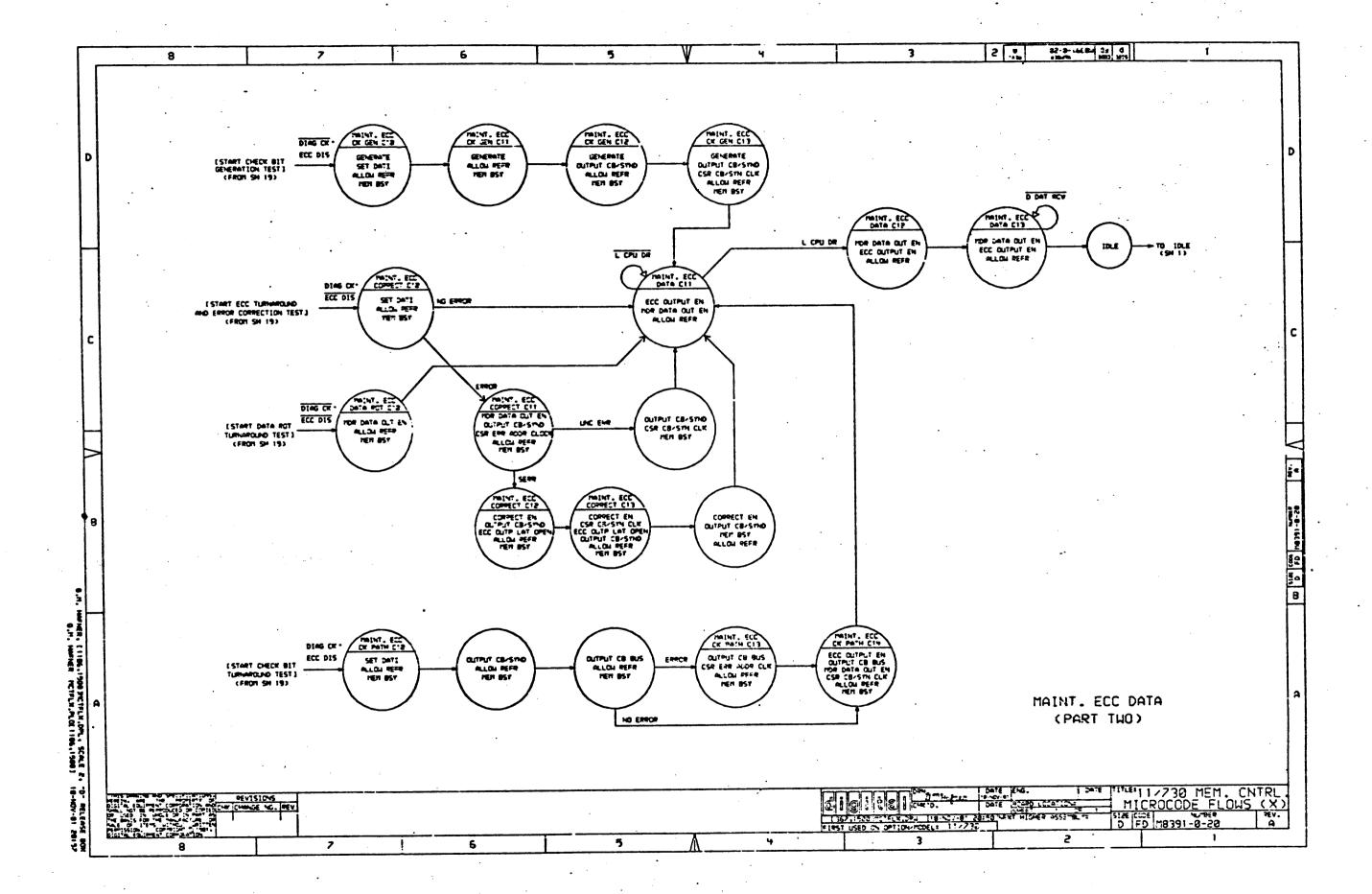


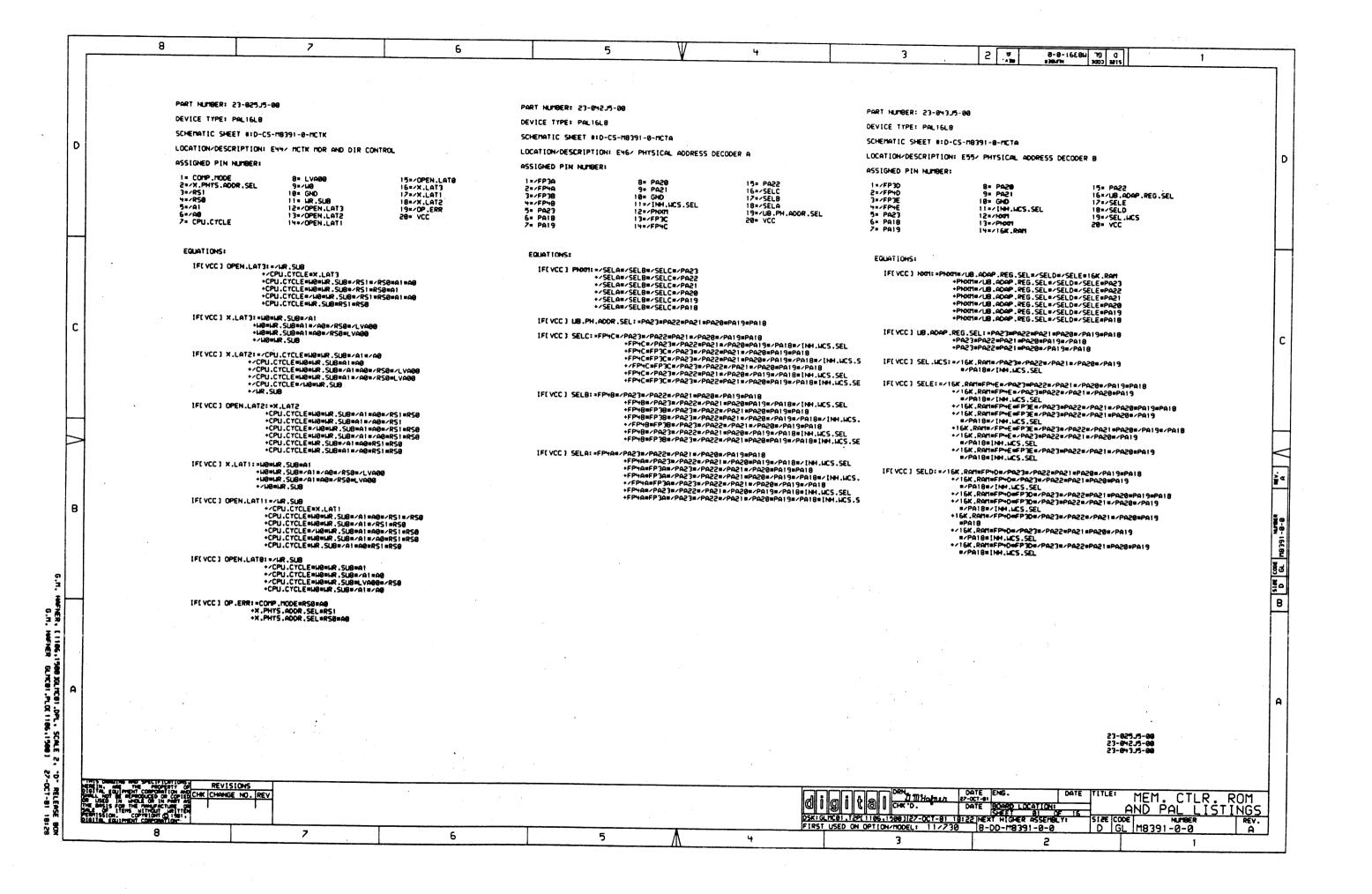






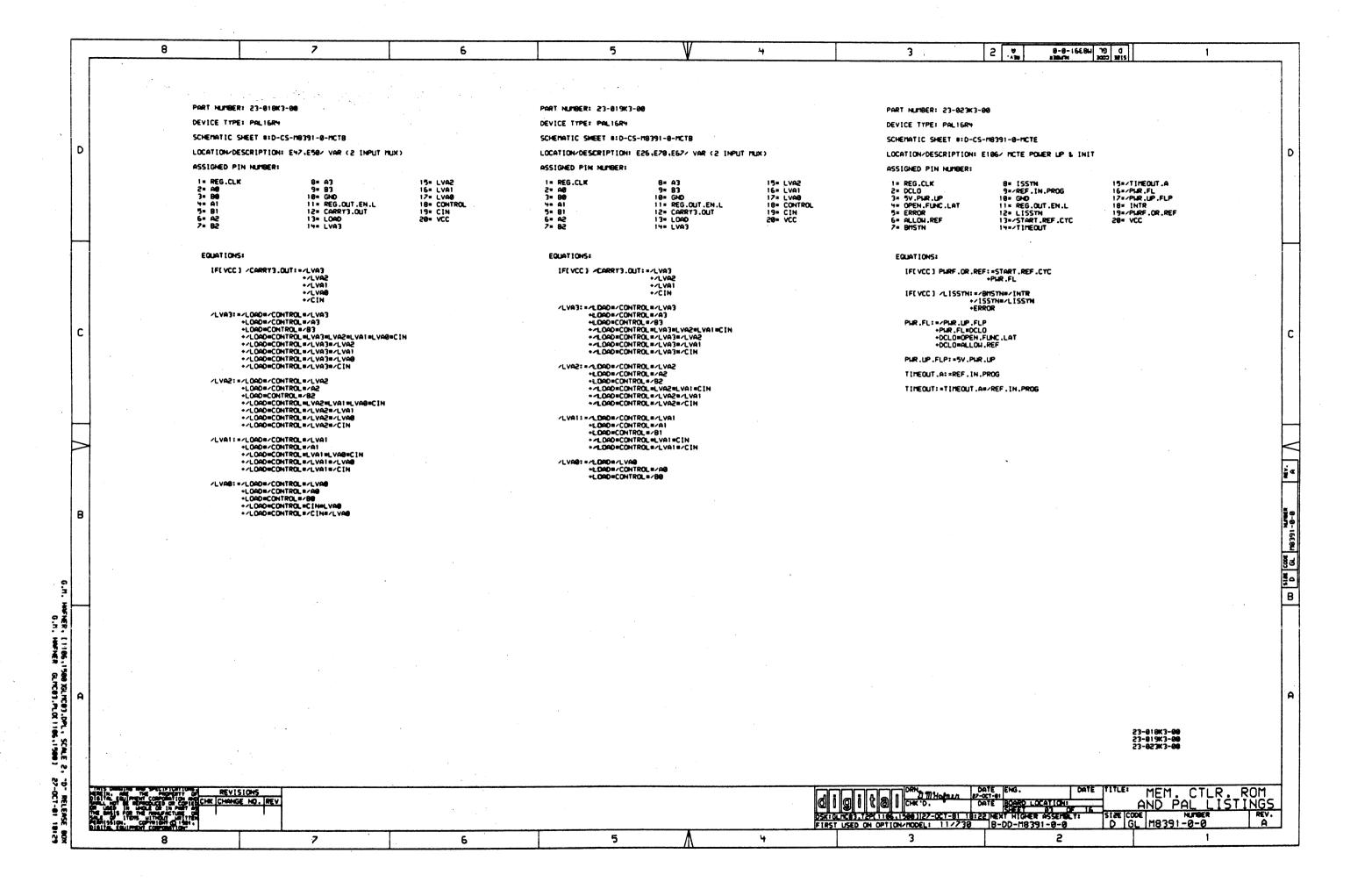


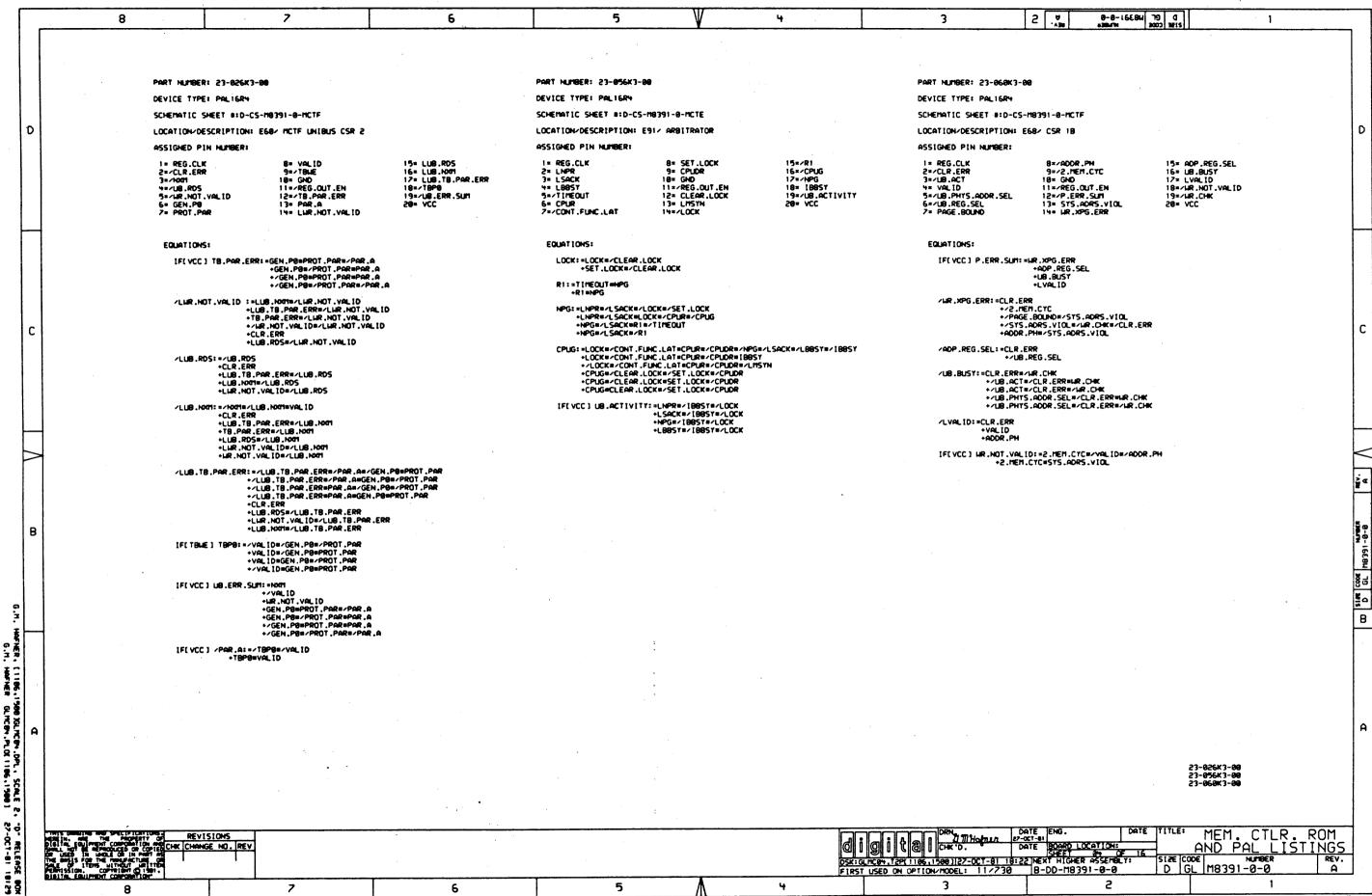


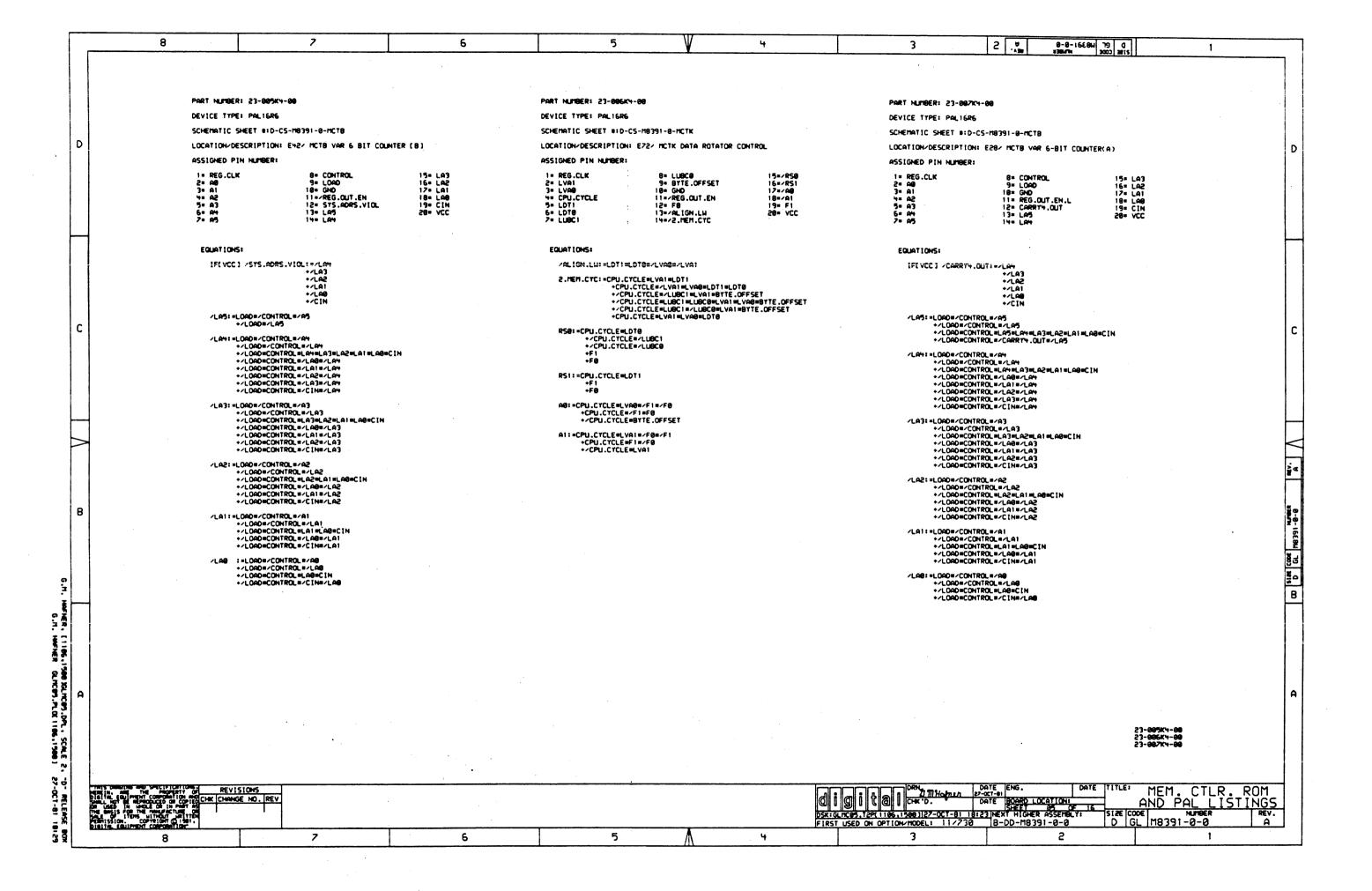


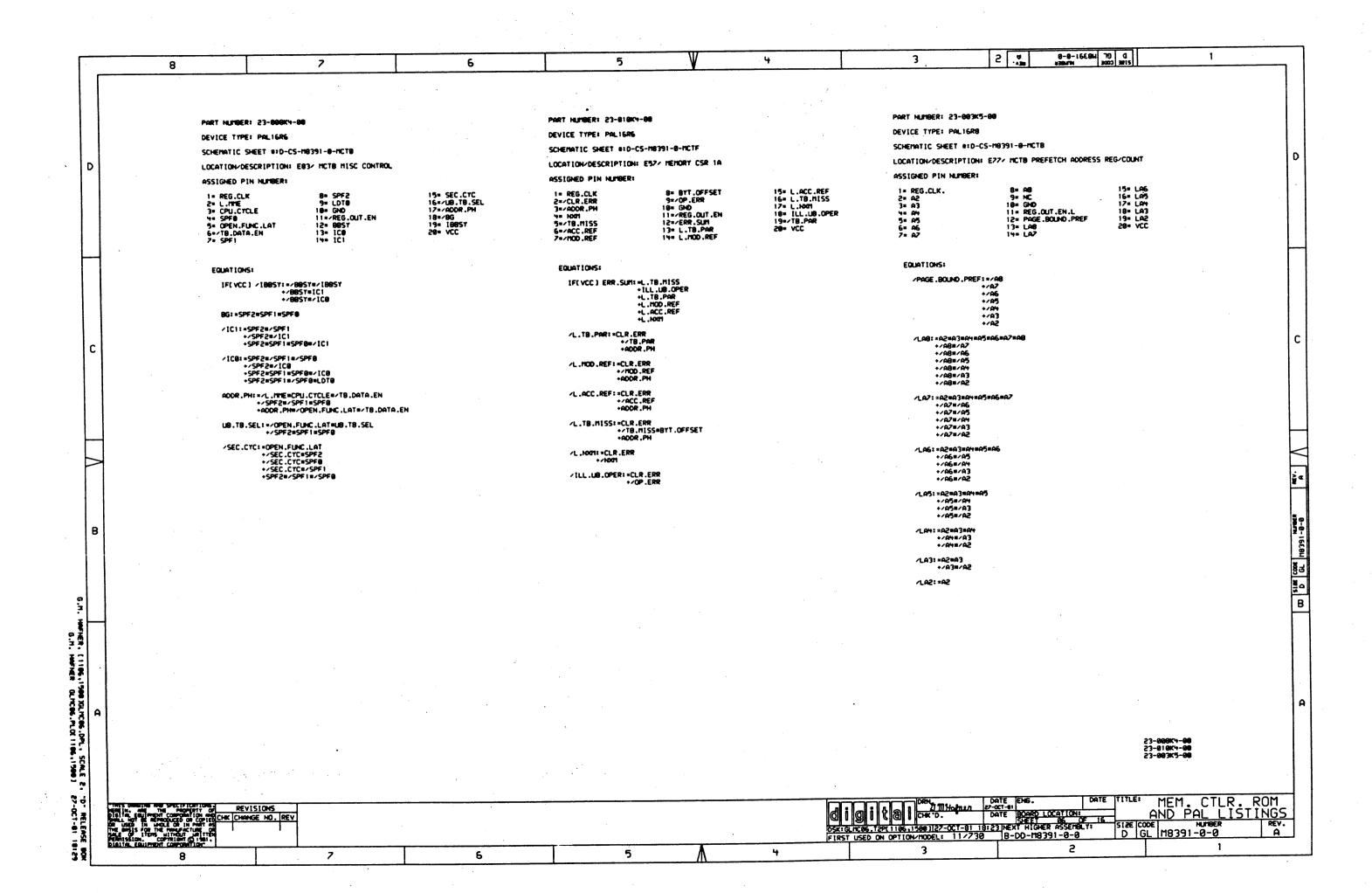
0 er u8331-8-8 1 2 3 5 7 6 8 PART NUMBER: 23-017K3-00 PART NUMBER: 23-861,75-88 PART NUMBER: 23-844J5-88 DEVICE TYPE: PALIGRY DEVICE TYPE: PALISLE DEVICE TYPE: PALIGLE SCHEMATIC SHEET #: 0-CS-M8391-8-MCTL SCHEMATIC SHEET #:D-CS-M8391-8-MCTF SCHEMATIC SHEET #:D-CS-M8391-#-MCTA LOCATION/DESCRIPTION: E3-E7,E13-E15/ DATA ROTATOR & LATCH LOCATION/DESCRIPTION: E61/ MCTF CSR CONTROL LOCATION/DESCRIPTION: E84/ CONTROL PREFETCH ASSIGNED PIN NUMBER: ASSIGNED PIN NUMBER: ASSIGNED PIN NUMBER: 15=/0A816 16=/0A808 17=/0A808 18= MC08 19= MC00 20= VCC 8=/CYC1 9=/MDR.DATOLIT.EN 1= REG.CLK.H 8=/CLR.UB.RDS 9= 2ND.MEM.CYC 18= GND 11= L.ECC.DIS 15=/UB.LRDS 16= NC 17= NC 15= NC 16= CSR.2.CLK 17= LR.CSR.1 18=/OP.PREF.ADDR 19=/PG.BOLND 28= VCC 8= LVA3 9= ERR.SUM.CLK 18= GND 11= NC 12=/OP.ARY.ADDR 13= CPU.CYCLE 1=/ERR.ADDR.CLK.A 1= CSR.19 2=/CPUG 3= OPEN.CONT.LATCH 4= PG.BHO.PREF 5= PG.BHO 2=/IA800 3=/IA808 4=/IA816 1=/ERR.ADDR.CLK 2=/SERR 3=/ERR 4= INH.REP.CRD 5= CPU.CYCLE 6= ERR.SUM.CLK 10= GND 11=/DIR.LERSYT.EN 18= LRDS 19= NC 5=/IAB24 6=/AB 7=/AI 12= MC24 13= MC16 12= NC 13= LCRD 20= VCC 6=/UR.CSR 7= LVA2 14=/09824 14=/DAT .ERR 7=/MR.CSR EQUATIONS: EQUATIONS: EQUATIONS: IF[HOR.DATOUT.EN] /HC24:= CYC1=/A1=/A8=/[A824 IF(VCC) LB.LRDS: =/SERR=ERR=ERR.ADDR.CLK.A=/CPU.CYCLE +/CLR.LB.RDS=UB.LRDS +/A1= A0=/IA800 + A1=/A0=/IA808 + A1= A0=/IA816 IF[VCC] OP .ARY .ADDR: =/OP .PREF .ADDR +/CYC1=/A1=/A8=/0A824 IF(VCC) CLR.LB.RDS: =LR.CSR=LVA3=/LVA2 IF[MDR.DATOUT.EN] /MC16:=CYC1#/A1#/A9#/[A816 +CYC1#/A1# A9#/[A824 + A1#/A9#/[A896 + A1# A9#/[A898 IF[VCC] VCSR.2.CLK:=/ERR.SLM.CLK=LVA2 +/ERR.SLM.CLK=/LVA3 +/ERR.SLM.CLK=/LVA3 +/ERR.SLM.CLK=/LVA3 +/LR.CSR=CPU.CYCLE +/CYC1=/A1=/QAB16 IF(VCC) /LRDS: =CPU.CYCLE =ERR.SUM.CLK=/2ND.HEM.CYC +UR.CSR +/LRDS=SERR OA824:= CYCI=/MOR.DATOUT.EN=/A1=/A8=MC24 + CYCI=/MOR.DATOUT.EN=/A1=/A8=MC26 + CYCI=/MOR.DATOUT.EN=/A1=/A8=MC88 + CYCI=/MOR.DATOUT.EN=/A1=/A8=MC88 +CPU.CYCLE=/LVA3 +/LROS=/ERR +/LROS=/ERR.ADDR.CLK.A ./LRDS=/CPU.CYCLE IF[VCC] /MR.CSR.1:=/MR.CSR IFEVCC1 /LCRO: =CPU.CYCLE=ERR.SUM.CLK=/2ND.HEM.CYC OAB16:=CYCI#ZHDR.DATOUT.EN#ZAI#ZAB#HC16
+CYCI#ZHDR.DATOUT.EN#ZAI#AB#HC88
+CYCI#ZHDR.DATOUT.EN#AI#AB#HC88
+CYCI#ZHDR.DATOUT.EN#AI#AB#HC84
+CYCI#ZHDR.DATOUT.EN#AI#A#HC8#HC24
+ZYCI#ZHDR.DATOUT.EN#AI#A#HC8#HC24 ·LVA3 +WR.CSR +/LCRD#/SERR IF(VCC) OP.PREF.ADDR:=/CSR.19=CPUG=OPEN.CONT.LATCH +OP.PREF.ADDR=COPEN.CONT.LATCH +OP.PREF.ADDR=CPUG */LCROW/SERR
+/LCROW/SERR.ADDR.CLK.A
+/LCROW/CPU.CYCLE
+/LCROWINH.REP.CRD +CYC1=/A1 =A8=IA824=MOR.DATOUT.EN 1F(VCC) PG.BOUND: =OP.PREF,ADDR=PG.BND.PREF +/OP.PREF,ADDR=PG.BND QABBB: =CYC1 = /MDR . DATOUT . EN=/A1=/A8=FIC8B +CYC1 = /MDR . DATOUT . EN=/A1=A8=FIC8B +CYC1 = /MDR . DATOUT . EN=A1=A8=FIC2* +CYC1 = /MDR . DATOUT . EN=A1=A8=FIC15 IF(VCC) VCPU.CTCLE: =/CPU.CTCLE=/CPUG */CPUG=OPEN.CONT.LATCH +CYC1=MDR.DATOUT.EN=A1=A8=IA824 +CYC1=MDR.DATOUT.EN=A1=A8=IA824 OABOB: =CYC1 = /FIDR .DATOUT .EN=/A1 = /A0=FC08
+CYC1 = /FIDR .DATOUT .EN=/A1 = /A0=FC24
+CYC1 = /FIDR .DATOUT .EN=/A1 = /A0=FC16
+CYC1 = /FIDR .DATOUT .EN=A1 = /A0=FC36
+/CYC1 = OABOB
+/CYC1 = DATOUT .EN=/A1 = /A0= I A0B
+CYC1 = FDR .DATOUT .EN=A1 = /A0= I A0B
+CYC1 = FDR .DATOUT .EN=A1 = /A0=FA1A16
+CYC1 = FDR .DATOUT .EN=A1 = /A0=FA1A16
+CYC1 = FDR .DATOUT .EN=A1 = A0B= I A0B В 300 Q D Q C IF[MOR.DATOUT.EN] /MC88:=CYC1#/A1#/A8#/IA888 +CYC1=/A1=A8=/IA816 +CYC1=A1=/A8=/IA824 A01 =00= / T0000 +/CYC1 #A1 #/A8#/0A888 IF[MDR.DATOUT.EN] /MC88:=CTC1#/A1#/A8#/[A888 +CYC1=/A1=A8=/IA808 +CYC1=A1=A8=/IA808 +CYC1=A1=A8=/IA824 +/CYC1=/0A808 106. 500 JGLMC02.PLOX 1106 23-044J5-00 23-061J5-00 23-017K3-00 MEM. CTLR. digitalions AND PAL LISTINGS REVISIONS HK CHANGE NO. REV REV. D GL M8391-0-0 3 4 2 0 5 6 7

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		9 0 9 9 0 9	98 100016 4D 010011	311 641 101 641	9 00 00001100	988 989 98A	42 01000010 8B 10001011	ØC9	E8 11101000 13 00010011 E8 11101000	108 109 10A	16 00010110 2D 00101101 4C 01001100	148 149 14A	D1 11010001 D3 11010011 49 01001001	188 189 18A	88 10001000 89 10001001 F8 11111000	1C8 1C9 1CA	10 00010000 CA 11001010 CD 11001101	
		990 998 998	28 000016 28 001016 00 000006	900 94	C _ 4D 01001101	988 98C	C5 11000101		D4 11010100 E7 11100111	10B 10C	6E 01101110 16 00010110	148 140	D2 11010010 B7 10110111	188 18C	A8 10101000 DE 11011110	ICB ICC	CC 11001100 CD 11001101	V.
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		013 014	9A 900016 24 901901	10 05	3 53 01010011	092 093 094	A3 10100011 FB 11111011	903	70 01110000 B7 10110111 D0 11010000	112 113 114	10 00010000 06 00000110 14 00010100	152 153 154	DE 11011110 E2 11100010 D6 11010110	192 193 194	C5 11000101 A1 10100001 95 10010101	102 103 104	AD 10101101 4B 01001011 4E 01001110	
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	c	018 019	1E 000111	10 05	8 40 01000000	098 099	22 11000016 98 10011006 92 10010016	908	9A 10011010 83 10000011 03 00000011	11 <i>7</i> 118 119	96 00000110 1D 00011101 AA 10101010	157 158 159	55 01010101 5A 01011010 E1 11100001	1 <i>97</i> 198 199	99 10011001 87 10000111 F3 11110011	107 108 109	E3 11100011 D9 11011001 DA 11011010	c
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		01D 01E	28 001016	911 050 990 950	5E 01011110	09D 09E	79 01111001 4C 01001100	900	A1 10100001 DC 11011100	11D 11E	1E 00011110 22 00100010 7C 01111100	15C 15D 15E	90 10011101 75 01110101 06 11010110	19C 19D 19E	F8 11111000 9E 10011110 FE 11111110	1DC 1DD 1DE	DD 11011101 52 01010010 DF 11011111	
		01F 020 021	06 000001 10 000100 BA 101110	960	8 60 01100000	09F 0A0 0A1	90 10011101 90 10100000 30 00111100		A1 10100001 AA 10101010 44 01000100	11F 12 0 121	AB 10101011 7F 01111111 AF 10101111	15F 160	E4 11100100 10 00010000	19F 1A0	FD 11111101 A1 10100001	1DF 1E0	58 01011000 59 01011001	
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		927 928	1F 000111 E8 111010	11 06: 900 06:	7 A2 10100010 9 06 00000110	0A7 0A8	A5 10100101 A8 10101000	9E2 9E8	EB 11101011	1 <i>27</i> 128	80 10110000 81 10110001	162 168	D6 11010110 C8 11001000	1A6 1A7 1A8	6D 01101101 F7 11110111 11 00010001	1E7 1E8	08 00001000 E9 11101001	à a
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		02F 030	82 100000 36 001101	10 061 10 071	60 01100000 0 C3 11000011	0AF 080	70 01110000 06 00000110	9EF 9F9	A1 10100001 35 00110101	12E 12F 130	31 00110001 AB 10101011 AA 10101010	16E 16F 1 <i>7</i> 0	6E 01101110 67 01100111 70 01110000	1AE 1AF 180	21 00100001 15 00010101 28 00101000	1EE 1EF 1F0	EF 11101111 78 01111011 F1 11110001	1883
		032 033	3A 001116 3A 001116	10 07		081 082 083	AS 10101000 B2 10110010 07 00000111		55 01010101 A1 10100001 D7 11010111	131 132 133	D1 11010001 35 00110101 C0 11000000	1 <i>7</i> 1 1 <i>7</i> 2	EA 11101010 EB 11101011	181	B2 10110010 B3 10110011	1F1 1F2	86 10000110 F3 11110011 7F 01111111	833
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6.H. H		039 03A	C6 110001	10 079	9 09 00001001 9 03 11010011	089 08A	14 00010100 BC 10111100	9F9 9FA	54 01010100 A1 10100001	139 13A	39 00111001 3A 00111010	1 <i>7</i> 9 1 <i>7</i> A	10 00010000 58 01011000 80 10000000	188 189 18A	2D 00101101 8E 10001110 8B 10111011	1F9 1FA	99 99999999	
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× 5				•.											DEVICE TYPE:518 SCHEMATIC SHEET LOCATION/DESCRI	2 × 8 7 #:D-CS-M8		
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20202001 996 99 99999999 046 99999991 986 00 00000000 **8C6** 71 9111999 147 187 107 99 99999999 01 00000001 00 00000000 20 20000000 007 91 00000001 842 9999999 087 aa aaaaaaaa **3C**2 91 99999991 02 00000010 108 99 99999999 148 ØE 00001110 188 18 80018888 99 9999999 00000111 880 01 000000001 **9**C8 91 999999991 998 048 109 189 92 99999918 01 00000001 149 00 00000000 18 8881888 01 00000001 089 99 9999999 **8C**9 01 00000001 009 60 01100000 849 5C 01011100 10A 01 00000001 14A 00 00000000 18A 81 98999991 00A 04A 01 00000001 **08A** 01 00000000 **OCA** 61 01100001 91 99999991 10B 10C 188 01 20000001 00 0000000 00 00000000 148 01 00000001 01 00000001 **08B** 99999991 **9CB** 93 99999911 998 0000000 04B a1 18C 81 10000001 1CC 02 00000010 9999999 50 01010000 14C 99 99999999 99C 00000001 98C 01 00000001 **OCC** A1 99999991 04C aı 100 140 0E 00001110 180 90 99999999 1CD 02 00000018 00 00000000 91 99999991 990 9999999 04D 01 00000001 01 99999991 **OCD** 10E 10F 11 00010001 14E 01 00000001 18E 18 88818888 1CE 99999999 aaaaaaaa 01 0000000 08E 01 0000000 **OCE** aa 99E 01 00000001 04E 14F 18F 1CF 00000001 00 00000000 20 20000000 91 88 88888888 00F 01 00000001 21 0010000 10000001 **OCF** 99999991 110 00 00000000 150 20 00100000 198 90 90999999 100 06 00000110 99999999 010 00000001 050 71 0111000 090 97 99999111 800 Q1 91 151 191 90 99999999 1D1 50 01010000 10 00010000 88 8888888 11 00010001 **20**1 99999999 111 911 a1 99999991 051 31 00110001 091 ดา 112 152 21 00100001 192 60 01100000 102 992 00 00000000 805 91 9999999 91 9999999 052 60 01100000 912 01 000000001 193 103 00 00000000 01 00000001 153 81 10000001 113 00 00000000 053 21 00100001 **903** 81 10000001 013 60 01100000 01 00000001 093 99 99999999 9999999 114 48 81888888 154 07 00000111 194 104 01 00000001 **804** 01 99999999 954 094 00 00000000 01 00000001 914 195 105 99 99999999 81 10000001 155 01 00000000 99 99999999 115 055 11 00010001 **805** 21 01110001 01 00000001 01 00000001 095 915 156 196 14 99010100 106 00000001 116 117 11 00010001 01 0000000 01 00000001 806 aa aaaaaaaa 056 81 10000001 096 016 01 000000001 157 60 01100000 197 99 99999999 107 99 99999999 99 99999999 807 01 000000001 917 01 00000001 057 01 00000001 097 20 00100000 158 81 8666666 80 10000000 10 00010000 198 108 118 aa aaaaaaaa EØ 11100000 908 01 000000001 01 0000000 058 01 00000001 998 918 199 01 00000001 109 80 10000000 159 00 00000000 89 19999999 119 60 01100000 059 00 0000000 099 10000001 11 00010001 019 15A 60 01100000 4E 01001110 19A 36 30000110 1DA 05A aı 00000001 09A 01 00000001 80A 01 000000001 110 99 99999999 BIA 91 999999991 158 1DB 80 10000000 198 20 20202020 58 81188888 99 99999999 97 99999111 31 00110001 118 95B 00000001 098 01 000000001 ធា 918 150 1DC 00 0000000 00 00000000 19C BC 20001100 EØ 11100000 **BDC** Ñ١ 99999991 11C 98 99999999 95C 00000111 09C 50 01010000 RIC 15D 15E 15F 1DD 80 10000000 06 00000110 190 91 20202020 91 99999991 10000001 99999999 110 **050** 01 00000001 09D 21 OID 01 000000001 1DE 00000001 19E 14 20010100 91 99999999 01 0000000 01 00000001 05E 00 00000000 09E 81 10000001 **306** 01 00000000 11E DIF 70 01110000 19F 99 99999999 00 0000000 01 000000001 60 01100000 11F 05F 01 00000001 09F 00 00000000 01 000000001 DIF 160 140 98 30000000 1E0 99 99999999 00 00000000 10 00010000 00000001 97 99999111 969 00 00000000 AAA 91 00000001 ØE3 91 150 929 141 99 39999999 1E1 00 00000000 161 96 99999119 00000001 8E1 66 01100110 121 19 99919999 00 00000000 961 921 01 00000000 061 99 99999999 01 00000001 182 99 30000000 155 162 01 00000001 00000001 SAG 91 00000001 **8E2** 61 01100001 00 00000000 962 a1 822 00 0000000 80 10000000 1A3 98 88888888 1E3 123 01 00000000 163 00 00000000 0A3 00 00000000 0E3 01 00000001 01 00000000 963 023 80 10000000 99 99999999 30 30000000 01 000000001 184 9999999 124 125 164 40 01000000 01 00000001 01 91 999999991 964 024 88 1888888 165 '99 9999999 185 88 88888888 0E5 9999999 81 10000001 065 0A5 01 00000001 01 01 00000000 50 01010000 025 01 00000001 88 88888888 126 127 166 01 00000000 186 0E5 01 0000000 03 00000011 0A6 01 00000001 91 999999991 966 ØF 99991119 926 167 187 1E7 00 0000000 29 91119999 79 31110000 0E7 99999991 99 99999999 067 10000000 01 027 01 00000000 61 01100001 81 14 00010100 01 000000001 168 01 00000000 1A8 98 9999999 128 **83**9 9999999 **8A**0 00010001 828 91 99999999 968 ดเ 999999991 01 00000001 149 9999999 86 10000110 169 **E3**9 01 129 21 99199991 00 00000000 0A9 00 00000000 029 91 9999999 969 00 0000000 16A 50 01011100 2000000 188 12A 0AA 0EA 21 01110001 aa aaaaaaaa 06A 00000001 21 00100001 92A 01 00000000 01 66 01100110 1 AB 21 2000000 1EB 168 0EB 61 01100001 128 50 01100000 00 00000000 02B 97 99999111 **968** 0000000 ØAB 01 00000001 91 16C 00 00000000 00 00000000 1AC OC 90001100 120 06C ØAC. 91 00000001 0EC 00000000 00 00000000 00 00000000 **02C** 81 88888888 1ED 80 10000000 16D 1 AD 99 39999999 10 00010000 920 06D 0A0 00000001 0ED 11 00010001 12D 81 100000001 88 28888888 99 99999999 16E 1AE 14 00010100 91 999999991 0AE ØEE 71 01110001 12E 11 00010001 88 88888888 92E 06E 00000001 01 00000001 00 00000000 01 IAF 1EF 60 01100000 16F 00 0000000 26 2666666 00000001 0EF 01 99999999 12F 60 01100000 99 99999999 06F 00000001 02F 91 170 01 00000001 188 20 20000000 1FR 10 00010000 130 OF 9 00000000 00 00000000 979 **080** 00100001 00 00000000 21 030 99 99999999 181 89 19999999 1F1 10 00010000 01 00000001 01 00000001 171 031 071 00000001 0B1 10000001 OF 1 06 00000110 131 9 9 9 91 99999991 01 172 50 01011100 182 39999999 1F2 20 00100000 20 01110000 0F2 8888888 132 072 982 99 99999999 932 01 00000001 00 00000000 183 99999999 1F3 88 8888888 88 88888888 173 00 00000000 0F3 01100000 133 A1 99999999 033 01 00000000 073 00 00000000 983 01 00000001 80000000 1F4 39 00111001 174 184 91 99999999 00000001 0F4 99999999 134 01 00000001 074 00 00000000 084 01 034 035 185 01 99999991 165 aa aaaaaaaa 175 00 00000000 91 99999999 В 01 00000001 075 01 00000001 085 10000001 **0**F5 00000110 135 01 00000001 99919199 1F6 176 01 0000000 186 00 00000000 01 00000001 076 81 10000001 9999999 OF 5 88 8888888 136 036 1F7 99 9999999 187 96 99999119 177 07 00000111 037 977 **087** 0F7 01100000 137 01 000000001 81 10000001 0000000 99 99999999 18 88811818 1FR 80000000 178 10 00010000 00001111 OF B 98 98989898 138 aa aaaaaaaa 938 01 00000001 078 80 10000000 088 7E 01111110 159 189 06 00000110 10 00010000 179 0F9 01 9999999 139 20 00100000 839 91 00000001 079 61 01100001 **089** 9999999 00 0000000 1FA 99 99999999 0FA 79 91119999 17A 01 0000000 10000000 99999999 130 00 0000000 07A 61 01100001 934 99 99999999 1557ER 01 00000001 188 79 91110000 1FB 12B 13B 60 01100000 0000000 **OFB** 91 9999999 01 00000001 **078** 99 999999 038 00 0000000 20 20202020 1FC 17C 99 99999999 18C **08C** 00000001 0FC 38 99111999 99 99999999 00000001 07C 11 0001000 **03C** 01 99 9999999 20 20202020 1FD 170 80 10000000 180 81 100000001 10000001 ØFD 99 99999999 1 3D 71 01110001 07D 01 0000000 83D 10 00010000 1FE 00 00000000 18E 14 88818188 17E 01 00000000 01 00000001 00000001 0FE 01 00000001 13E 13F 50 01011100 07E 91 03E 00 00000000 00 00000000 1 BF 70 01110000 58 81188888 01 00000001 REF aaaaaaaa 8 XGLMC88 .DPL . 9 PART NUMBER: 23-03302-00 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #: D-CS-M8391-0-MCTM LOCATION DESCRIPTION: E112 / UCODE (08:15) LEFT COLUMN OF BIN DATA IS MSB BINARY DATA "1" = HIGH BINARY DATA "0" = LOH MEM. CTLR. DATE BOARD LOCATION:

DESCRIPTION:

DESCRIPT REVISIONS AND PAL LISTINGS REV. D GL M8391-0-0 FIRST USED ON OPTION/HODEL: 11/730 B-00-M8391-0-0 62 58 MOX 2 3 5 7 6

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			HEX HEX	HEX BIN		FOC HEX	HEX BIN		HEX HEX	HEX BIN DAT DAT	HEX LOC	HEX BIN	HEX LOC	HEX BIN	HEX	HEX BIN	HEX LOC	HEX BIN	HEX LOC	HEX BIN DAT DAT	
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SCALE 2.											,							PART NUMBER: DEVICE TYPE:5 SCHEMATIC SHE LOCATION/DESC LEFT COLUMN O BINARY DATA " BINARY DATA "	12 X 8 ET #:D-CS-M8 RIPTION: E62 F BIN DATA I 1" = HIGH	/ UCODE(24:31)	
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1110100 106 107 D **0C6** E9 11101001 E9 11101001 086 FF 11101111 FF 1110111 00 00000000 946 E9 11101001 187 F9 11101001 107 F9 1110100 0C7 E9 11101001 987 F9 11101001 847 EB 11101011 F9 1118188 108 E9 11101001 E9 11101001 188 F9 11101001 148 F9 11101001 **0C8** EB 11101011 108 EB 11101011 988 E9 11101001 E9 11101001 F9 11101001 848 189 F9 11101001 109 800 149 F9 1110100 F9 1110100 E9 11101001 109 **0C9** 089 D9 11011001 E9 11101001 EB 11101011 1CA 849 F9 11101001 E9 11101001 E9 11101001 188 009 E9 11101001 F9 11101001 0CA 10A EB 11101011 **08A** F9 11101001 E9 11101001 1CB F9 11101001 ED 11101101 94A 10B 10C 10D E9 11101001 E9 11101001 18B EB 11101011 **OCB** EB 11101011 **088** E9 11101001 1CC E1 11100001 A4R F9 11101001 E9 11101001 E9 11101001 180 E9 11101001 9CC EB 11101011 E9 11101001 **08C** ED 11101101 E1 11100001 1CD E9 11101001 84C F9 11101001 99C E9 11101001 E9 11101001 180 E9 11101001 0CD F9 11101001 E9 11101001 08D EB 11101011 840 F9 11101001 E9 11101001 E9 11101001 14E EB 11101011 18F E9 11101001 10F ED 11101101 0CE 98E E9 11101001 E9 11101001 94E F9 1110100 E9 11101001 14F E9 11101001 1.8F 1 0F EB 11101011 E9 11101001 **ØCF** F9 11101001 E9 11101001 **BRF** E9 11101001 84F F9 1110100 ED 11101101 150 ED 11101101 190 E9 11101001 110 808 E9 11101001 090 E9 11101001 E9 11101001 101 EB 11101011 050 F1 1110000 E9 11101001 E9 11101001 191 919 111 E9 11101001 0D1 E9 11101001 F9 11101001 E9 11101001 091 E9 11101001 F9 1110100 E9 11101001 951 152 ED 11101101 192 911 EB 11101011 E9 11101001 112 902 09 11011001 992 103 EB 11101011 EB 11101011 C9 11001001 952 193 E9 11101001 E9 11101001 153 E9 11101001 012 113 0D3 FR 11101011 F9 11101001 E9 11101001 993 E9 11101001 E9 11101001 953 E9 11101001 154 F9 11101001 194 013 E9 11101001 EB 11101011 114 E9 11101001 E9 11101001 894 E9 11101001 105 F9 11101001 195 E9 11101001 954 155 E9 11101001 115 E9 11101001 005 F9 1110100 F9 11101001 E9 11101001 095 E9 11101001 055 69 01101001 E9 11101001 156 EB 1110101 196 915 E9 11101001 116 E9 11101001 ED 11101101 **096** F9 11101001 107 ED 11101101 197 E9 11101001 956 E9 11101001 117 E9 11101001 157 E9 11101001 **007** F9 11101001 097 F9 11101001 252 69 01101001 E9 11101001 108 E9 11101001 E9 11101001 118 F9 11181881 158 F9 11101001 198 808 F9 11111001 F9 11101001 998 109 C9 11881881 F1 11100001 199 F9 11101001 958 E9 11101001 159 F9 11101001 018 E9 11101001 119 **009** FR 11101011 F9 11101001 E9 11101001 099 100 059 F9 11111001 F9 11101001 E9 11101001 150 F9 11191991 19A 919 F9 11101001 118 9DA E9-11101001 C9 11001001 F9 11101001 99A 1DB E9 11101001 19B E9 11101001 954 E9 11101001 E9 11101001 15R E9 11101001 118 **908** FB 1110101 F9 11101001 F9 11101001 E9 11101001 098 1DC 95B E9 1110100 190 E9 11101001 01B E9 11101001 F9 11101001 150 110 **ODC** F9 11111001 E9 11101001 C9 11001001 09C 95C E9 11101001 F9 11101001 190 FR 11101011 1 DD E9 11101001 150 110 E9 11101001 01C E9 11101001 900 F9 1110100 E9 11101001 950 E9 11101001 Ø90 E9 11101001 19E E9 11101001 1DE RID E9 11101001 E9 11101001 15E 11E **ODE** E9 11101001 E9 11101001 05E E9 11101001 09E 19F F9 11101001 1DF F9 11101001 F9 11101001 E9 11101001 155 DIE 11F E9 11101001 00F FR 1110101 E9 11101001 09F 1E8 F9 11181881 95F F9 11111001 E9 11101001 140 E9 11101001 EB 11101011 E9 11101001 DIF 120 160 0E0 0E1 E9 11101001 ED 11101101 EA 11101010 888 F9 11111001 E9 11101001 1E1 969 101 E1 1111999 929 EB 11101011 121 E9 11101001 161 FR 1110101 861 E9 11101001 F9 11181881 E9 11101001 E9 11101001 1E2 1A2 EB 11101011 061 E9 11101001 162 F9 1110100 122 9E2 E9 11101001 ED 11101101 F9 11111001 E9 11101001 2A6 E9 11101001 1E3 962 183 EF 11101111 E9 11101001 163 E9 1110100 922 123 E9 11101001 0E3 F9 11101001 0A3 F9 11101001 E9 11101001 E9 11101001 1F4 963 EB 1110101 F9 1110100 184 E9 11101001 164 124 E9 11101001 E9 11101001 0A4 0A5 1E5 C9 11001001 E9 11101001 185 E9 11101001 E9 11101001 264 F9 1110100 165 024 125 F9 11101001 0E5 F9 11101001 EB 11101011 F9 11101001 E9 11101001 E9 11101001 1F6 065 146 F9 1110100 F9 11101001 E9 11101001 166 162 025 E9 11101001 126 0A6 F9 1110100 C9 11001001 966 E9 11101001 197 EB 11101011 1E2 F9 11101001 E9 11101001 926 127 F9 11101001 967 0E7 F9 11101001 E9 11101001 EB 1110101 967 E9 11101001 E9 11101001 1F8 F9 1110100 E9 11101001 E9 11101001 168 927 128 0E8 E9 11101001 E9 11101001 E9 11101001 BAR 968 E9 11101001 149 E9 11101001 1E9 E9 11101001 F9 11101001 169 928 129 F9 11101001 9A9 0E9 AC 10101100 EB 11101011 E9 11101001 E9 11101001 E9 11101001 1EA 969 F9 1110100 E9 11101001 029 E9 11101001 160 12A F9 11101001 E9 11101001 E9 11101001 1E8 06A E9 11101001 188 E9 11101001 E9 11101001 FR 11101011 128 E9 11101001 16B ØAB. **0EB** FR 11101000 E9 11101001 E9 11101001 EC 11101100 68 01101000 968 E9 11101001 1FC EB 11101011 E9 11101001 16C 02B 120 0AC E9 11101001 E9 11101001 E9 11101001 1FD 96C E9 11101001 1AD E9 11101001 E9 11101001 E9 11101001 E9 11101001 92C 120 16D ØAD EB 11101011 0ED F1 1110000 E9 11101001 E9 11101001 E9 11101001 1EE 960 E9 11101001 1 AE 16F 02D E9 11101001 E9 11101001 12E 69 01101001 ØAE ØAF E9 11101001 E9 11101001 1FF 96E E9 11101001 1 AF EB 11101011 16F E9 11101001 **02E** E9 11101001 12F E9 11101001 **ØEF** F1 1110000 E9 11101001 EB 11101011 E9 11101001 E9 11101001 1F0 170 E9 11101001 188 02F E9 11101001 E9 11101001 130 E9 11101001 0F0 980 EB 11101011 1F1 E9 11101001 070 EB 11101011 E9 11101001 181 09 11011001 171 E9 11101001 ED 11101101 131 0F1 F9 1111100 EB 11101011 1F2 E9 11101001 E9 11101001 971 081 F9 11101001 172 E9 11101001 182 031 FR 11101011 E9 11101001 132 F9 11101001 0F2 882 ED 11101101 1F3 E9 11101001 072 E9 11101001 183 C9 11881881 E9 11101001 173 935 E9 11101001 133 ED 11101101 0F3 E9 1110100 **983** ED 11101101 1F4 F9 11101001 073 E9 11101001 1B4 C9 11001001 EB 11101011 174 033 60 91191191 EB 11101011 134 F9 1110100 E9 11101001 0F4 **BR4** E9 11111001 1F5 6C 01101100 074 EB 11101011 185 175 E9 11101001 69 01101001 ED 11101101 135 QF5 E9 1111100 EB 11101011 E9 11101001 085 C9 11001001 1F6 F9 11101001 975 EB 11101011 186 035 ED 11191191 F9 11101001 176 F9 1110100 E9 11101001 0F6 1F7 ED 11101101 986 187 E1 11100001 076 F9 11101001 177 E9 11101001 F9 11101001 ED 11101101 036 137 E9 1110100 087 F9 11101001 QE 7 1F8 E9 11101001 F9 11111001 877 E9 11101001 188 178 69 01101001 037 F9 11101001 F9 11101001 138 F9 1111100 E9 11101001 2F8 1F9 E9 11101001 **088** 078 F9 11101001 189 F9 11101001 F9 11101001 179 69 01101001 E9 11101001 938 139 E9 11101001 DF9 C9 1100100 E9 11101001 089 F1 11100001 079 E9 11101001 17A 69 01101001 1BA 039 FR 11101011 13A E9 11101001 F9 1111100 **BFA** E9 11101001 E9 11101001 E9 11101001 0BA 97A F9 11101001 178 69 01101001 188 FR 11101011 **03A** E9 11101001 E9 11101001 E8 11101000 **OFB** E9 11101001 988 C9 11881881 **078** D9 11011001 E9 11101001 1 BC 1196. 17C FR 11101011 938 130 E9 11101001 E9 11101001 E9 11101001 ØFC ED 11101101 **08C** E9 11101001 180 97C E9 11101001 170 C9 11001001 FR 11101011 03C E9 11101001 130 E9 11101001 **080** C9 11001001 OFD E9 11101001 1FE E9 11101001 07D E9 11101001 17E E9 11101001 1RF F9 11101001 **030** E9 11101001 13E E9 11101001 EB 11101011 0FE ED 11101101 **08E** E9 11101001 07E E9 11101001 E9 11101001 F9 11101001 03E 13F E9 11101001 E9 11101001 요 🧸 EB 11101011 E9 11101001 Α FB 11101011 שניי. PART NUMBER: 23-03702-00 DEVICE TYPE:512 X 8 C12.DPL . 9 SCHEMATIC SHEET #: D-CS-M8391-0-MCTM LOCATION DESCRIPTION: E63 / UCODE(40:47) LEFT COLLIMN OF BIN DATA IS MSB BINARY DATA "1" = HIGH BINARY DATA "0" = LOH MEM. CTLR. ROM AND PAL LISTINGS REVISIONS -OCT-81 1 CHK CHANGE NO. REV NUMBER D GL M8391-0-0 2 5 6 7 8

8 7 6 5 3 0 OF H8331-8-8 2 1 HEX BIN HEX HEX BIN HEX BIN HEX HEX HEX BIN HEX LOC DAT HEY BIN HEX LOC DAT HEX DAT LOC DAT DAT BIN LOC DAT DAT HEX HEX RIN LOC DAT DAT LOC DAT DAT LOC DAT DAT DAT LOC DAT 99999999 949 00 00001010 989 10000010 **000** 98 99991999 86 10000110 140 991 00 00000000 9C1 9C2 9C3 9C4 9C5 08 00001000 941 AR AAAA1A11 180 86 10000110 981 98 00001000 02 00000010 80 10001010 101 0A 00001010 141 0A 00001010 181 842 0B 00001011 982 98 8A 10001010 101 00001000 48 91991999 92 99999919 102 83 1000001 142 993 08 00001000 82 10000010 9999999 182 943 98 99991911 083 102 0A 00001010 90 99991919 103 0A 00001010 143 88 10001010 00000000 183 88 10001010 944 80 10001010 084 103 84 88881818 00001100 80 10001010 0A 00001010 144 08 00001000 995 00000000 845 80 10001010 184 7A 01111010 085 00001000 104 02 00000010 00 00001010 105 9A 99991919 145 00 00001010 185 046 50 01011010 00 00001010 986 39 00111001 0C6 92 99999919 00 00001010 0A 00001010 106 146 D 997 AA 10101010 047 8A 10001010 186 0C7 0C8 8F 10001110 86 88881818 087 ØA. 00001010 0A 00001010 98 99991999 107 0A 00001010 147 998 10001010 00 00001010 187 50 01011010 848 90 99991919 988 8A 10001010 102 39 00111001 82 10000010 108 9A 00001010 148 009 82 00 00001010 10000010 188 98 98991919 049 86 88881818 089 ØC9 108 00001000 02 00000010 80 88881818 109 0A 00001010 149 88 10001011 84 10001010 189 940 99 99991919 90 99991919 **08A** 89 00001000 0CA 02 00000010 82 10000010 10A 9A 99991919 140 998 98 99991999 10001010 18A 0E 00001110 04B 99 99991919 98C 98B 99991999 0CB 0A 00001010 108 8F 19991119 0A 00001010 148 99C 10101010 08 00001000 18B 98 99991919 88 88881818 A4C 09 00001001 9CC 1CB 00001010 86 19991919 10C 0A 00001010 140 84 8E 88881118 180 10001010 Ø4D 0A 00001919 02 000000010 **080** 98 00001000 0CD 1CC E2 11100010 80 10001010 100 0A 00001010 14D 82 10000010 9E 99991119 300 84F 92 99999919 08E 08F 180 5A 01011010 90 00001101 9CE 1CD E2 11100010 00 00001010 10E 8A 10001010 14E 0A 00001010 18E 88 10001011 00 00001010 0A 00001010 04F 98 0CF 1CE 00001000 94 99991919 99 99991919 IRE 0A 00001010 14F 88 19991999 919 08 00001000 959 92 99999919 18F 5A 01011010 090 98 00001000 000 1CF 0A 00001010 88 88881818 110 0A 00001010 150 22 99199919 011 08 00001000 198 08 00001000 051 92 99999919 091 98 00001000 0D1 100 00001000 99 99991919 111 8A 10001010 151 88 18881818 912 08 00001000 0A 00001010 952 80 19991919 992 98 00001000 808 101 0A 00001010 00 00001010 112 0A 00001010 152 90 99991919 192 013 08 00001000 08 00001000 953 90 99991919 093 98 00001000 **9D3** 102 0A 00001010 90 99991919 113 8A 10001010 153 80 10001010 193 914 08 00001000 08 00001000 90 99991919 054 094 PA. 00001010 904 103 9A 99991919 00 00001010 114 0A 00001010 154 99 99991999 194 915 08 00001000 7A 01111010 055 90 99991919 095 98 00001000 005 104 0A 00001010 00 00001010 115 8A 10001010 155 82 10000010 195 016 08 00001000 7A 01111010 056 08 00001011 096 98 00001000 906 105 0A 00001010 0A 00001010 116 0A 00001010 156 88 18881818 196 912 08 00001000 052 0A 00001010 90 99991919 097 98 00001000 **007** 106 00 00001010 00 00001010 117 0A 00001010 157 82 19999919 197 018 08 00001000 058 8A 10001010 92 99999919 998 0R 00001000 908 102 0B 00001011 00 00001010 118 9A 99991919 158 0E 00001110 198 019 08 00001000 99 99991919 0A 00001010 059 099 98 00001000 108 08 00001000 009 0A 00001010 119 82 10000010 159 80 88881818 818 08 00001000 199 0A 00001010 05A 0A 00001010 09A BB 00001000 0DA 109 08 00001000 ۲ 86 88881818 110 0A 00001010 15A RIR 88 99991999 06 00000110 19A 0A 00001010 958 09B 09C AD ABBAIAIA 98 0001000 100 08 00001000 **908** 00 00001010 118 82 10000010 15B 99 99991919 19B 19C 01C 8A 88881818 08 00001000 95C 90 99991919 98 00001000 **ODC** 02 00000010 108 98 99991999 110 0A 00001010 15C 00 00001010 RID 0A 00001010 7F 91111119 85D 09D 09E 90 99991919 98 0001000 900 1DC 08 00001000 86 10000110 110 0A 00001010 150 08 00001000 190 01E 0A 00001010 0A 00001010 95F 99 99991919 89 00001000 **ODE** 100 08 00001000 92 99999919 11E 8A 10001010 15E 00 00001010 8A 10001010 0A 00001010 19E MIF 95F 99 99991919 09F 99 00001010 0DF 1DF 8A 10001010 82 10000010 11F 0A 00001010 15F 08 00001000 19F IDF 929 8A 88881818 68 01101000 969 82 10000010 0A0 09 00001001 0E0 08 00001000 00 00001010 120 0A 00001010 160 0A 00001010 921 100 0A 00001010 0A 00001010 961 99 99991919 IFA 901 88 00001010 84 10001010 0E 1 8A 10001010 121 8A 10001010 161 0A 00001010 101 0A 00001010 922 0A 00001010 962 99 99991919 SAB 1F1 49 01001001 0E2 08 00001000 82 10000010 155 0A 00001010 162 08 00001000 023 0A 00001010 102 9A 99991919 963 00 00001010 0A3 1F2 0A 00001010 0E3 08 00001000 8A 10001010 153 8A 10001010 163 0A 00001010 92 99999919 163 0A 00001010 264 00 00001010 1E3 0A4 0A5 0A 00001010 08 00001000 0E4 8A 10001010 124 125 0A 00001010 164 58 01011000 104 7A 01111010 02 00000010 065 90 99991919 1F4 ØΔ 00001010 0E5 08 00001000 0A 00001010 8A 10001010 165 8A 10001010 926 105 7A 01111010 0E 00001110 966 0A 00001010 1E5 996 9A 00001010 0E6 9A 99991919 126 127 08 00001200 00 00001010 0A 00001010 186 027 062 0A 00001010 0A 00001010 82 10000010 1E6 ØΔ 00001010 0E2 8A 10001010 88 18881818 98 99991999 167 9A 99991919 147 928 08 00001000 0A 00001010 968 1EZ 0A8 00 00001010 00 00001010 **ØE8** 8A 10001010 08 20201222 9A 99991919 128 129 12A 12B 12C 12D 12E 12F 168 08 00001000 108 929 ØE 00001110 0A 00001010 069 00 00001010 0A9 1E8 50 01011010 80 10001010 0E9 88 10001011 08 00001000 169 08 00001000 189 92A 0A 00001010 84 00001010 06A 1E9 00 00001010 08 99991999 0A 00001010 ØEA ØA 00001010 99 99991919 16A 08 00001000 100 **028 068** 0AB 0AC 84 99991919 9A 99991919 0A 00001010 1EA 38 00111000 00 00001010 0EB 8A 10001010 08 00001000 168 08 00001000 IAB 0A 00001010 FF 11111111 **05C** 08 00001000 06C 0A 00001010 1EB 08 00001000 00 00001010 ØEC 8A 10001010 В 9A 99991919 16C 58 01011000 TAC OAC OAE OAF 020 8A 88881818 96D 84 88881818 1EC 0A 00001010 PΩ 00001010 0ED 02 00000010 88 88881888 16D 99 00001010 1AD **92E** 08 00001000 96E 08 00001000 0E 00001110 1ED 08 00001000 ØΔ 99991919 0EE 00001010 ØE 00001110 80 10001010 16E 16F IAE **02F** 58 01011000 06F 8A 10001018 1EE 8A 10001010 0A 00001010 ØΦ 00001010 0EF 92 08 00001000 28 00101000 IAF 38 99111999 939 0A 00001010 1EF 979 8A 88881818 989 08 00001000 ØΔ 00001010 0F0 00001010 170 171 80 10001010 08 00001000 180 8A 10001012 031 08 00001011 8A 10001010 1F0 0A 00001010 971 99991919 081 ØΔ 0F1 0F2 ØA. 00001010 131 99 99991991 08 00001000 181 88 88881888 0A 00001010 1F1 032 972 8A 10001010 982 0A 00001010 ØΔ 00001010 9A 99991919 132 00 00001010 172 173 08 00001000 182 08 00001000 ಕ್ಷಣ 033 08 0000101 8A 10001010 1F2 073 48 01001000 983 90 99991919 0F3 98 00001000 133 20 22221121 98 99991999 183 00 00001010 034 0A 00001010 1F3 10001010 OC 00001100 9A 99991919 084 085 0F4 0F5 0A 00001010 134 00 00001010 1*7*4 1*7*5 02 00000010 184 98 99991999 035 0B 00001011 075 88 1F4 08 00001000 10001010 99991999 135 136 137 89 0A 00001010 89 88881881 98 9999 999 185 08 00001000 936 81818888 AB 10001010 1F5 0B 00001011 **BRS** 98 99991999 0F6 84 99991919 00 00001010 1*7*6 1*77* 8A 10001010 В 186 80 10001010 837 00 0000000 077 88 10001010 0B7 1F6 8A 19991919 88 88881888 0F7 08 00001000 00 00001101 08 00001000 187 08 00001000 938 02 00000010 82 10000010 1F7 39 00111001 078 988 08 00001000 0F8 08 00001000 138 10001010 178 179 17A 0A 00001010 188 039 84 88881818 079 82 10000010 0A 00001010 IFR 0E 00001110 089 00001010 0F9 9A 99991919 139 08 00001000 00 00001010 189 08 00001000 99 99999999 83A 07A 82 10000010 1F9 8A 10001010 **08A** 0A 00001010 00001010 9F0 13A 00001010 ØE 00001110 184 02 00000010 00001010 **938 078** 08 00001000 **088** 1FA 9A 10011016 8E 10001110 0FB 0A 00001010 138 17B 08 00001000 0A 00001010 188 08 00001000 **03C** 9A 99991919 07C ØA 98C 1FR 9A 10011010 00001010 08 00001000 **ØFC** 0A 00001010 130 ØA. 170 20001010 OC 00001100 1 BC 08 00001000 1FC 38 00111000 00001010 **930** 07D 0A 00001010 980 08 00001000 0FD 9A 99991919 130 08 00001000 170 08 00001000 180 10001010 98 99991999 8A 19991919 93E 07E 8A 10001010 1FD 39 00111001 9BE 0A 00001010 13E 13F OFF 0A 00001010 8E 10001110 10001010 17E 84 10001010 1BE 88 10001010 IFE 0A 00001010 99 999111991 39 99111991 92F 08 00001000 98 00001000 9A 00001010 1 BF 0A 00001010 A PART NUMBER: 23-03802-00 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #: D-CS-M8391-0-MCTM LOCATION/DESCRIPTION: E86 / UCODE(48:55) LEFT COLUMN OF BIN DATA IS MSB BINARY DATA "1" = HIGH BINARY DATA "0" = LOH DATE ENG. DATE

CHK'D. DATE BOARD LOCATION:

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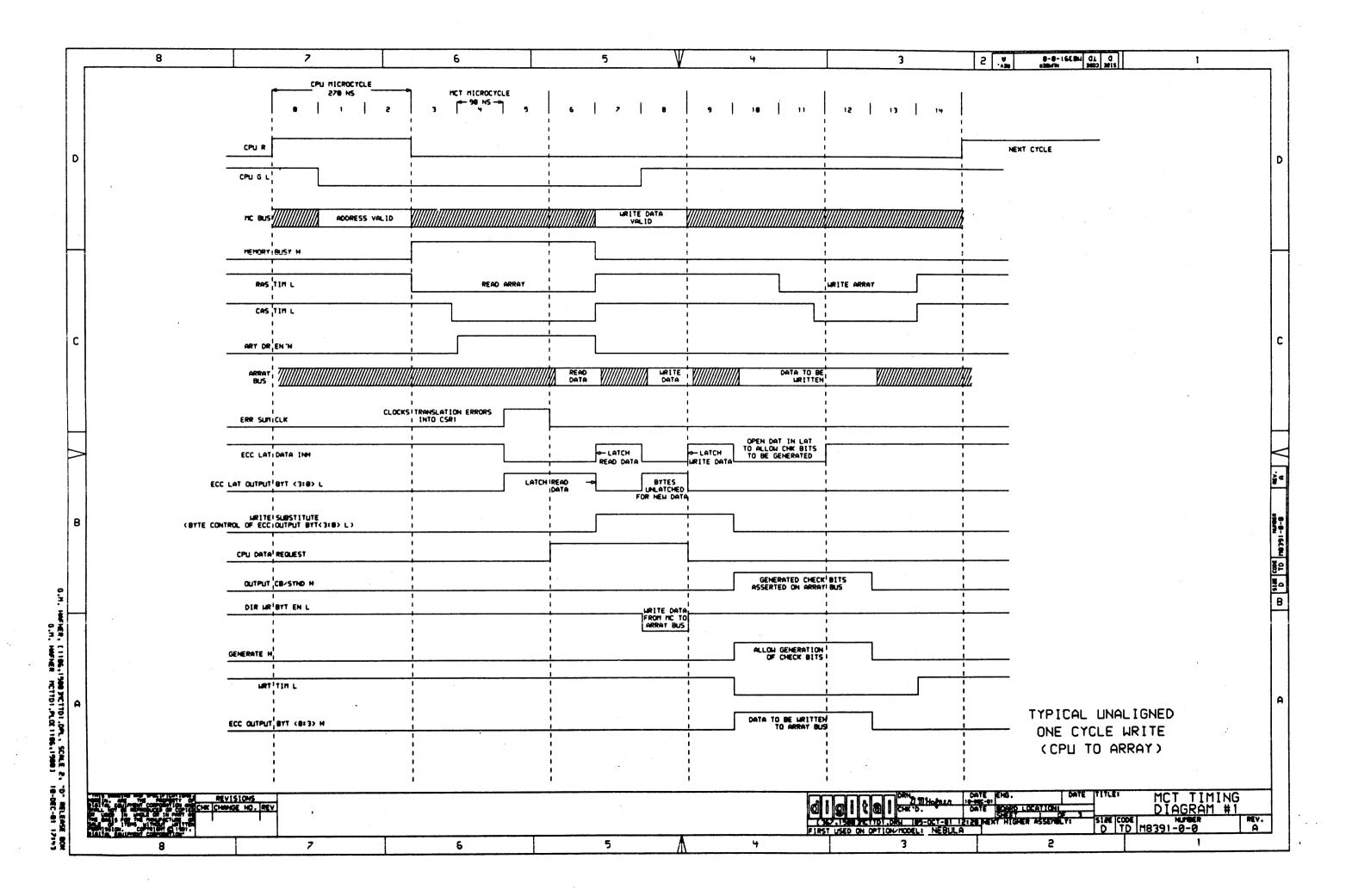
FIRST USED ON OPTION/HODEL: 11/730 8-DD-M8391-A-A REVISIONS ME THE RECORD OF REVISIONS
MAY PROVIDE THE REPORT OF THE REVISIONS
ME REPORT OF THE REVISION O TITLE: MEM. CTLR. ROM AND PAL LISTINGS REV. D GL M8391-0-0 8 7 6 5 4 3 2

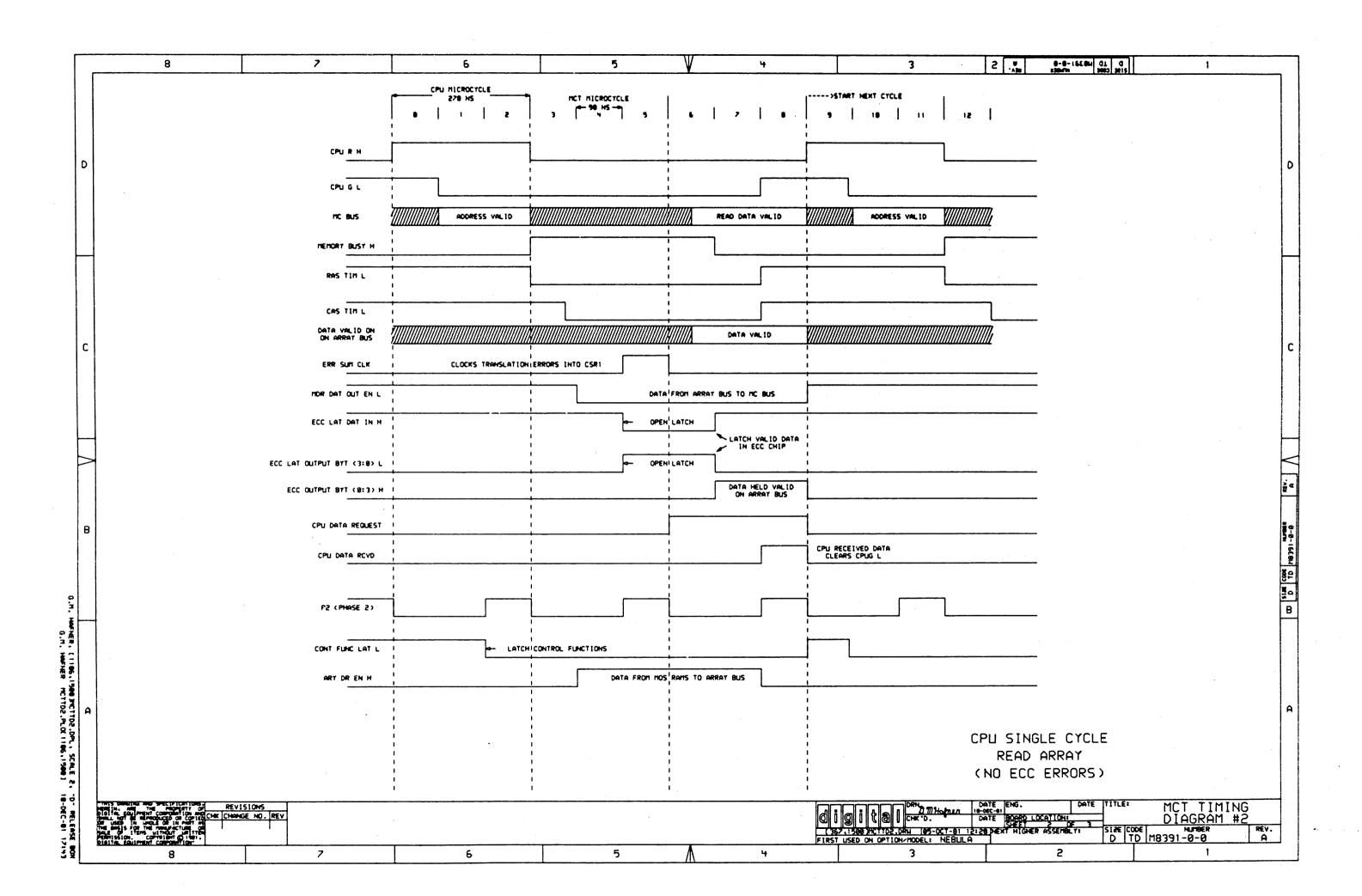
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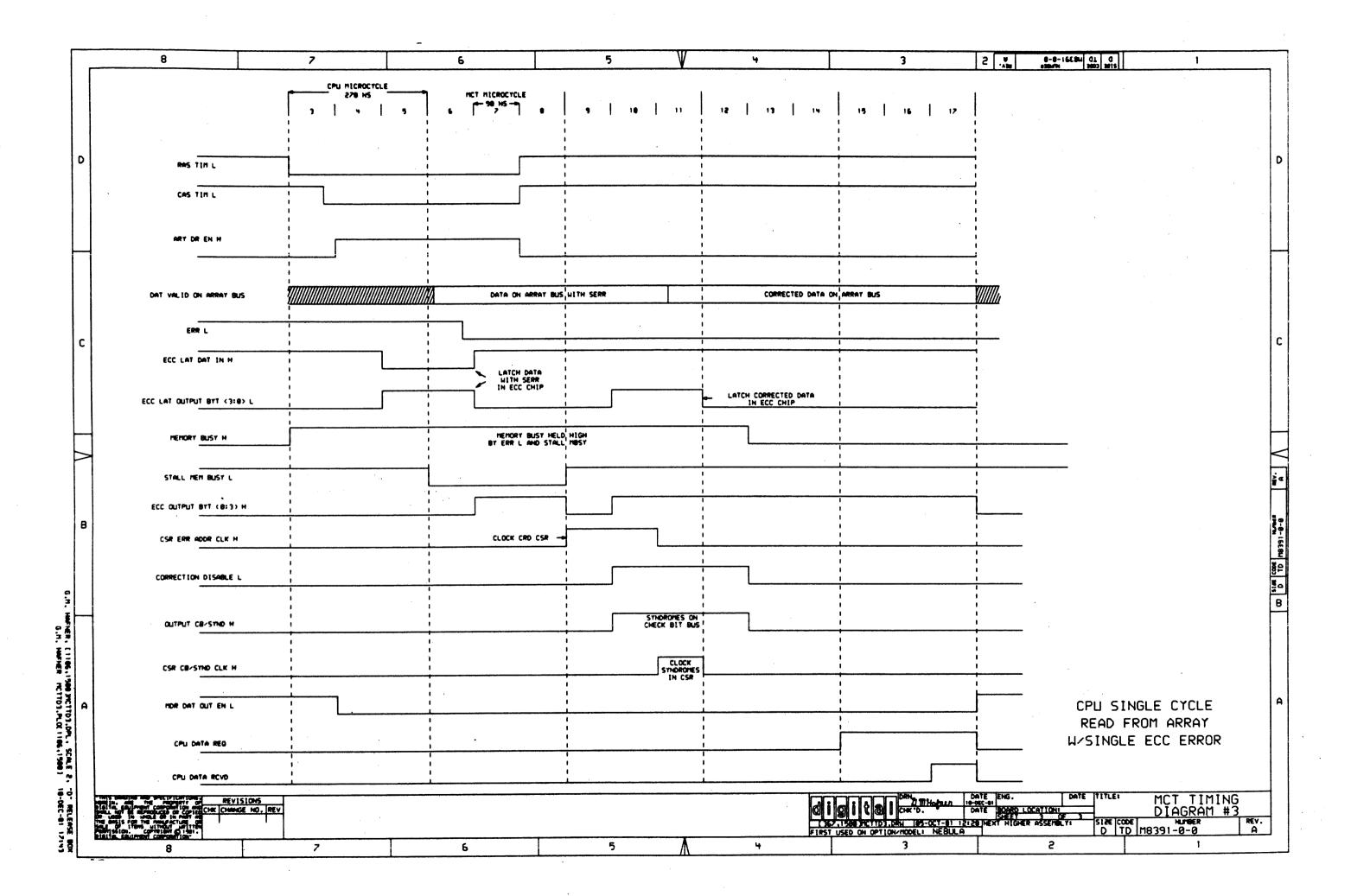
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	HE LO				HEX	HEX BIN	HEX		BIN DAT	HEX LOC	HEX BIN		HEX LOC	HEX BIN	HEX	HEX BIN	HEX LOC			HEX	HEX BIN DAT DAT	
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G.M. NAFNER, [1186,1588	0 0 0 0 0 0 0 0 0 0	33 E2 34 E2 35 A2 36 E2 37 E3 38 23 39 A3 39 E2 30 E2 31 E2 31 E2	2 101000 2 111000 2 111000 2 101000 2 111000 3 101000 3 101000 2 111000 2 111000 2 111000 2 111000	310 310 310 310 311 311 311 310 310 310	072 073 074 075 077 078 078 078 078 07E 07F	E2 11100018 E2 11100018 E2 111100018 E2 11100018 E2 11100018 E2 11100018 E2 01100018 E2 11100018 E2 11100018 E2 11100018 E2 11100018 E2 11100018	083 084 085 086 087 089 089 089 080 080	E2 111 E2 111 62 011 62 011 62 011 E2 111 E2 111 E2 111 E2 111 E2 111 E2 111	99919 99919 99919 99919 99919 99919 99919 99919 99919 99919	86888888888888888888888888888888888888	E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000 E2 111000	10 10 10 10 10 10 10 10 10 10	133 134 135 136 137 138 139 13A	E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010	172 173 174 175 176 177 178 179 17A 17B 17C 17D	E2 1110001 E2 1110001 E2 1110001 FA 1111101 E2 1110001 E2 1110001 E2 1110001 E2 1110001 E2 1110001 E2 1110001 E2 1110001 E2 1110001 E2 1110001	9 183 9 185 9 185 9 186 9 186 9 186 9 186 9 186 9 186	8 E2 62 E2 63 E2 64 E2 64 E2 64 E2 64 E2 65 E6 65 E6	11100010 11100010 01100010 01100010 11100010 11100010 11100010 11100010 11100010 11100010 11100010 11100010 11100010	1F2 1F3 1F4 1F5 1F6 1F7 1F8 1F0 1FC 1FE 1FF	E2 11100010 E2 11100010 E2 11100010 FA 11111010 62 01100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 01100010 EA 11101010	85 A B
(1106,1500)GLMC14,DPL, SCALE 2,		3F E2	? 111 <i>00</i> 0	טו ט	6/ F	טושטשווש בב	vor	CC 111		W T			. 31	22 11100010	1/6			PART DEVI SCHE LOCA	NUMBER: 23 CE TYPE:512 MATIC SHEET	8-039D2-00 ! X 8 : #:D-CS-M8 PTION: E73	391-0-MCTM / UCODE<56:63) A
ME 2, "D"							•											BINA	RY DATA "1" RY DATA "0"	= HIGH = LOW		
D" RELEASE 80X	THIS DESIGN OF THE PROPERTY OF	NOPERTY OF MATION AND O ON COPIED IN PART AS FACTURE OR UT PRITTEN	REVI	ISIONS GE NO. REV											dig	12P(1106 ,1500)	77-001-81 18:26	TE ENG CT-01 TE BOOM SHELL NEXT H	O LOCATION:	IE SIZE CO	MEM. CTL AND PAL L	ISTINGS REV.
16 18 X	DISTIN EQUIPMENT COM	B			7	,		6			5	1		ч	IF LRST USED	ON OPTION/MODE	L: 11//30	10-00-	18391-0-0	1016	L M8391-0-0 1	A

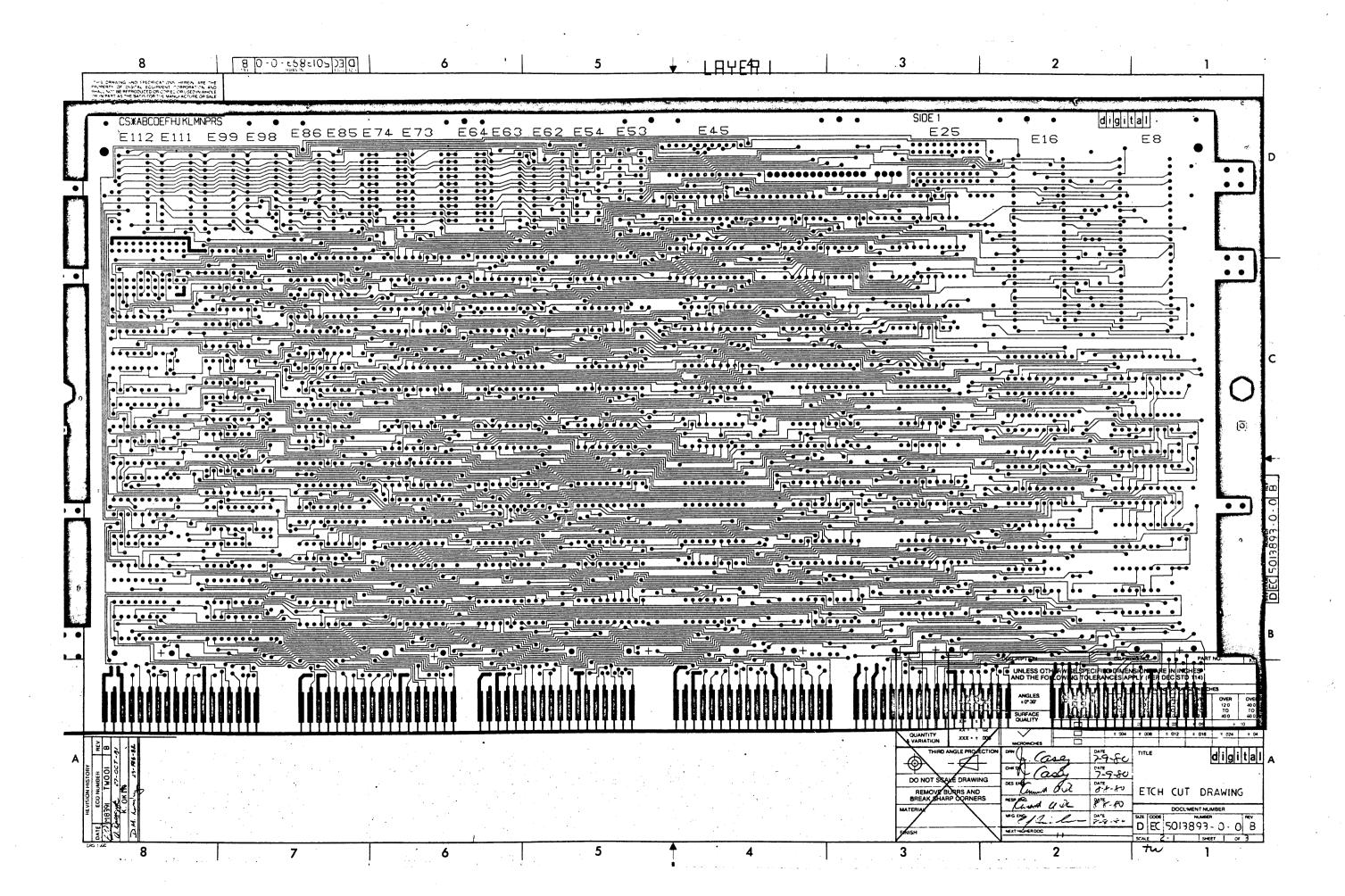
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С	99E 90F 919 911 913 915 915 916 918 910 910 910	43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011 43 01000011	94E 43 01000011 94F 43 01000011 950 43 01000011 951 43 01000011 952 43 01000011 953 43 01000011 954 43 01000011 955 43 01000011 956 43 01000011 957 43 01000011 958 43 01000011 958 43 01000011 959 43 01000011 950 43 01000011 950 43 01000011 950 43 01000011 950 43 01000011	091	9CE 43 01000011 9CF 43 01000011 9D0 43 01000011 9D1 43 01000011 9D2 43 01000011 9D3 43 01000011 9D4 43 01000011 9D5 43 01000011 9D6 43 01000011 9D8 43 01000011 9D8 43 01000011 9D8 43 01000011 9D9 43 01000011 9D9 43 01000011 9D0 43 01000011 9D0 43 01000011 9D0 43 01000011 9D0 43 01000011	10E	14E	18E	CE
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A								PART NUMBER: 23-04002 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #:D-C LOCATION DESCRIPTION: LEFT COLUMN OF BIN DA BINARY DATA "1" = HIG	S-M8391-0-MCTM E111 / UCODE(64:71) TA IS MSB H
	IS DESCRIPTION OF PROPERTY OF PROPERTY CONTROL OF THE REPRODUCTS OF THE PROPERTY OF THE PROPER	REVISIONS CONTROLLER C	7		5	A 4	DSK: GLNC15, 12PC 196, 1509 127-001.	DATE BOARD LOCATION: SHEET 15 OF 16 -81 18:27 NEXT HIGHER ASSEMBLY: S	

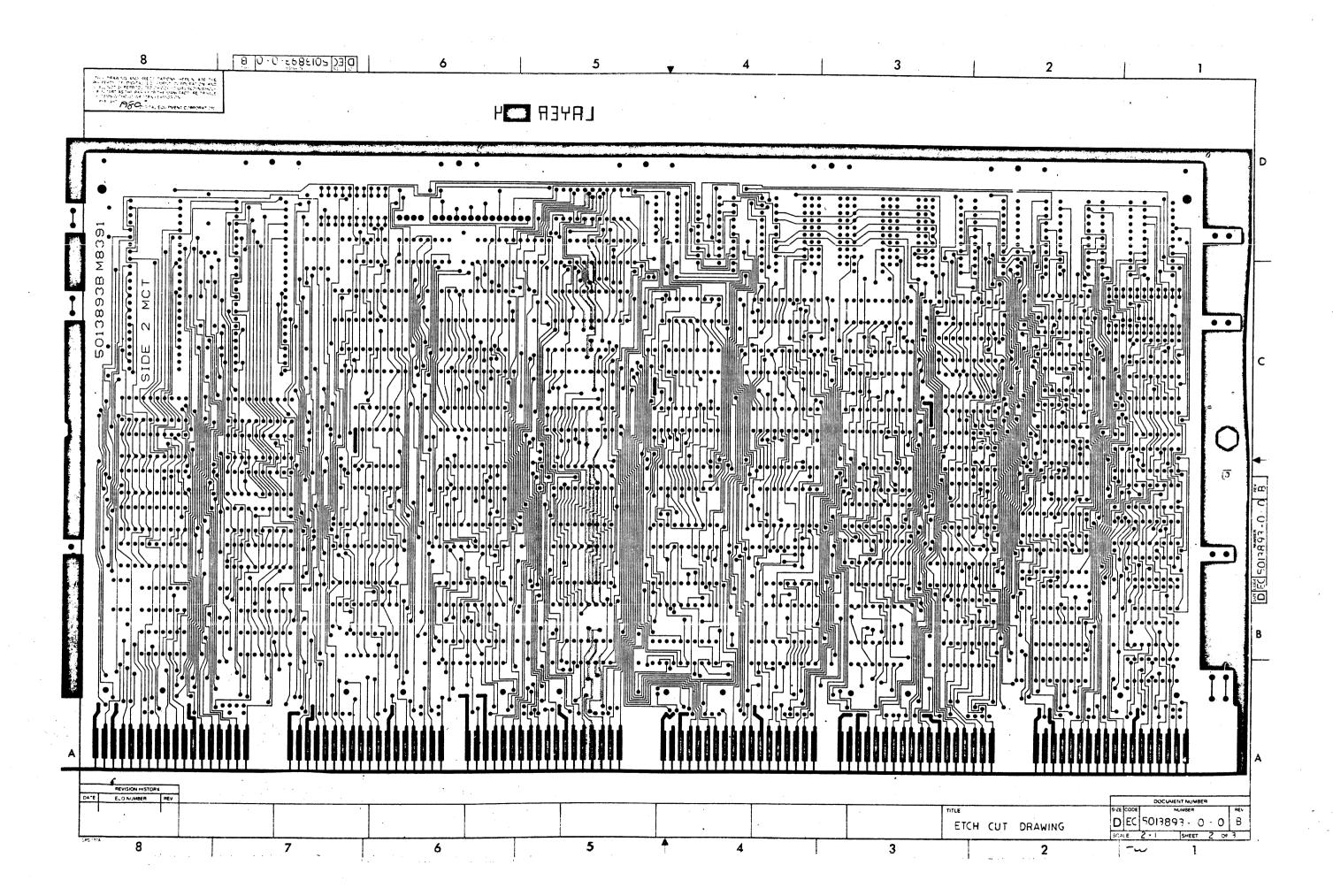
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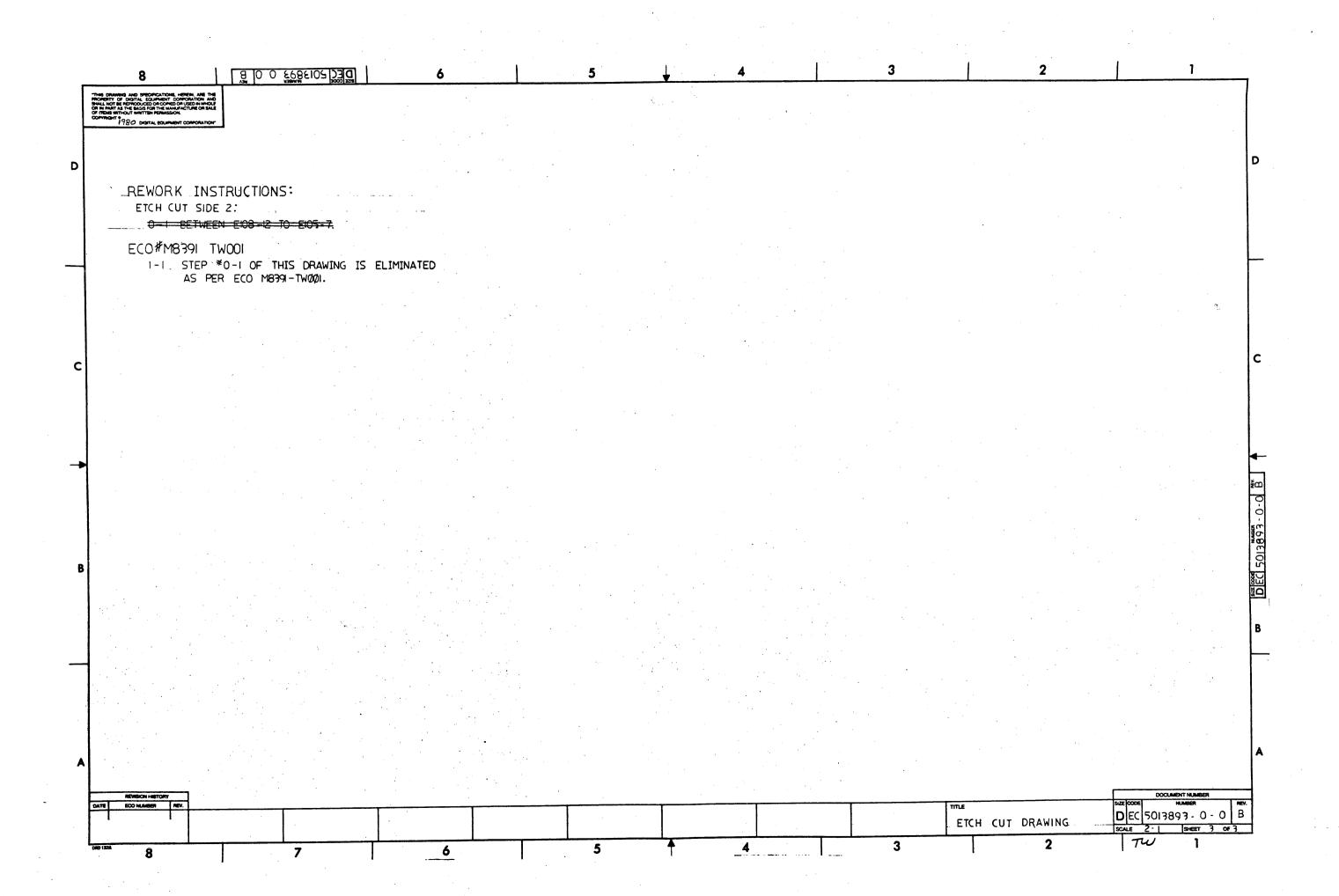




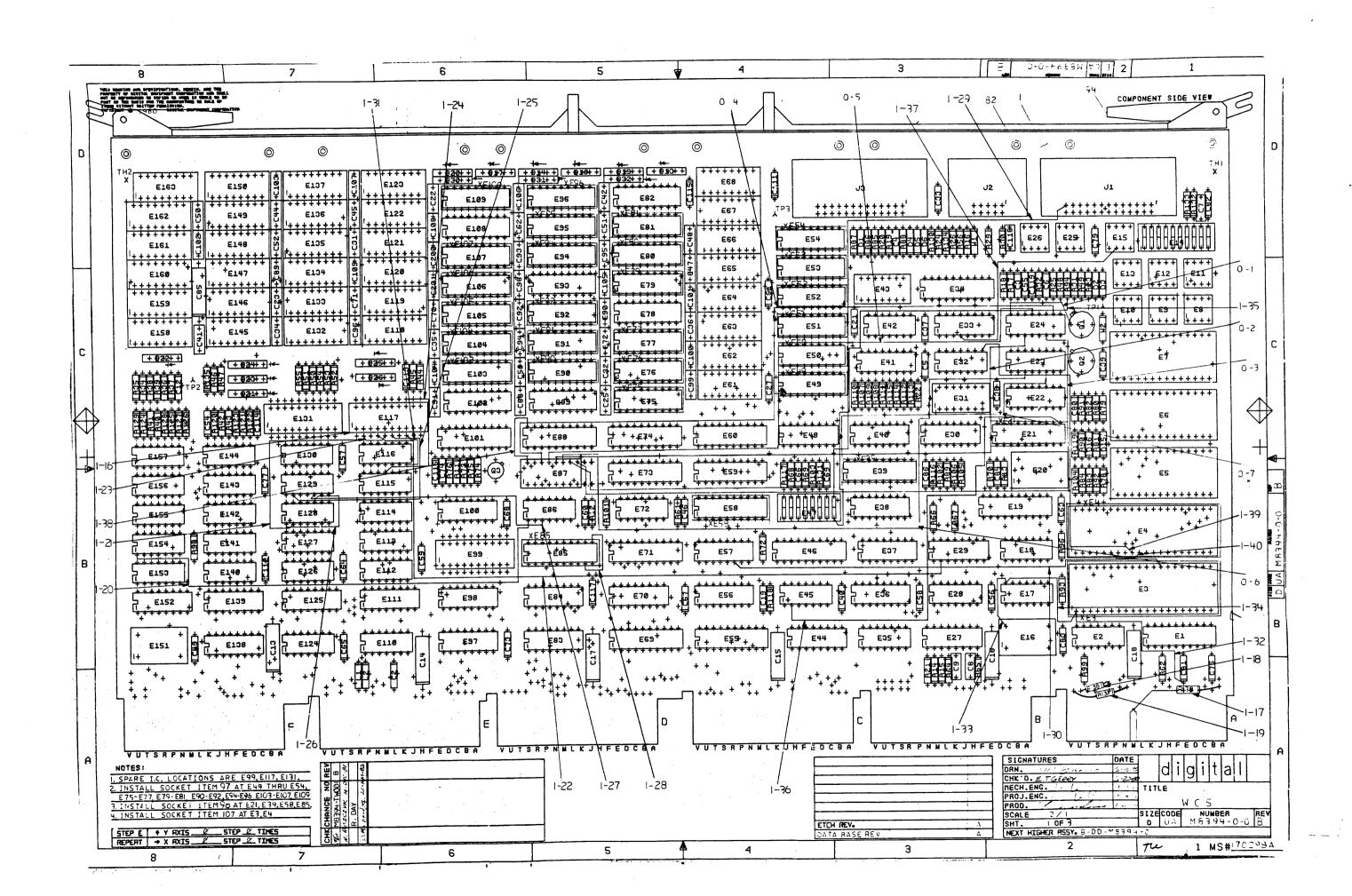


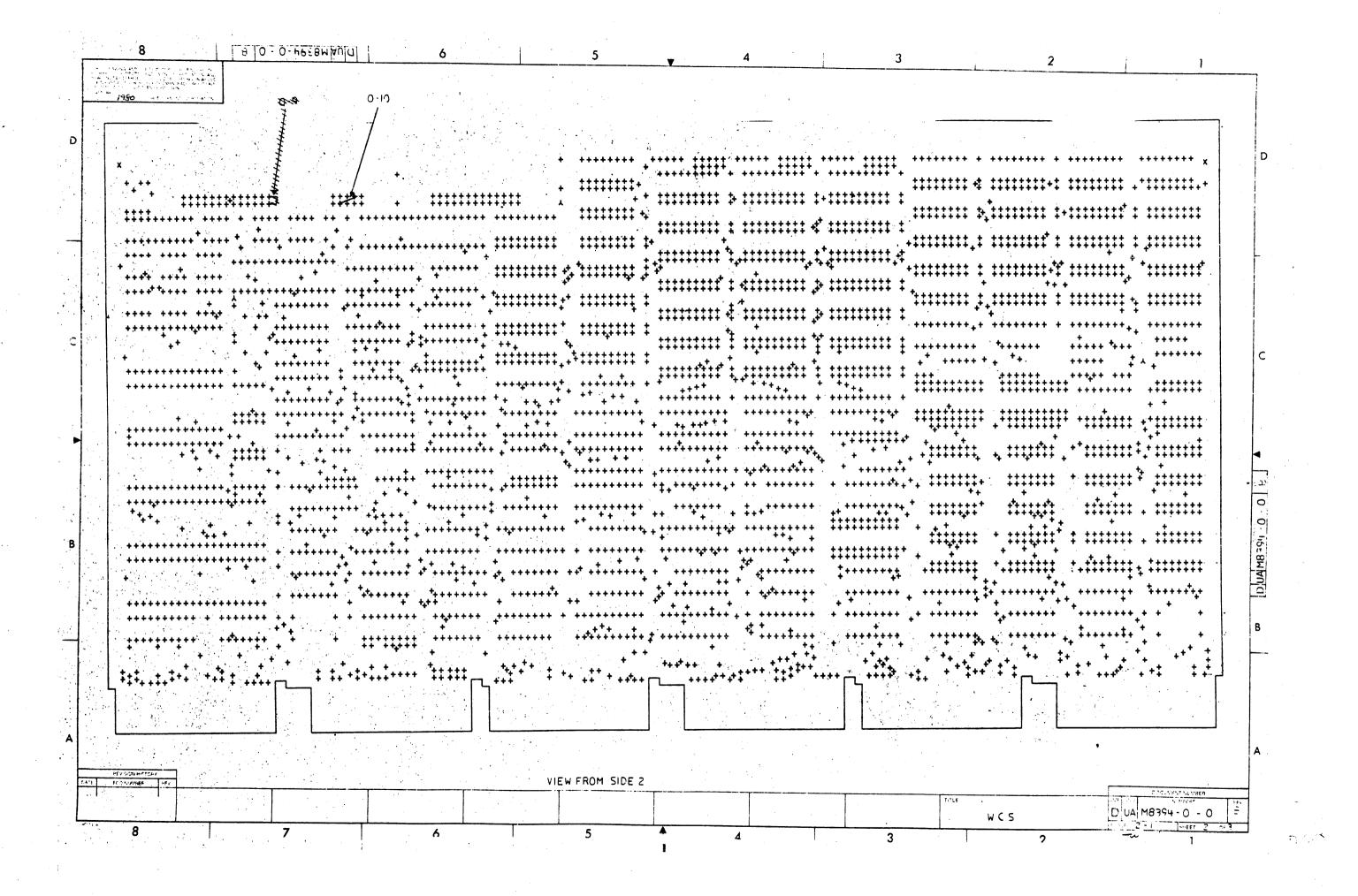


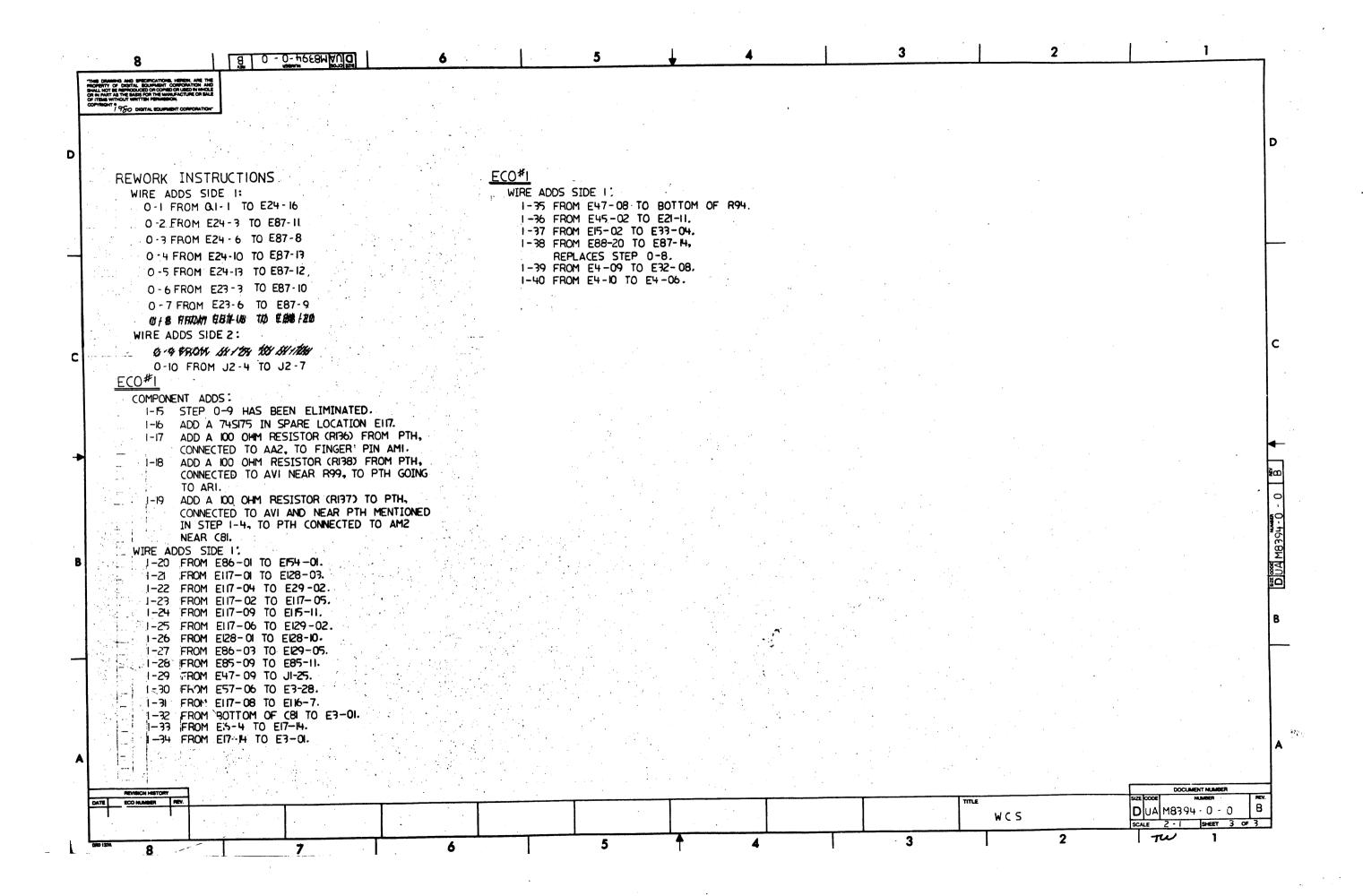




DD **B** 0-4688M BEV. NUMBER DRAWING NO. OF PART NO. **REVISIONS** DESCRIPTION MODULE REVISION AB B-DD-M8394-0 АВ DRAWING DIRECTORY D-UA-M8394-0-0 3 A B UNIT ASSEMBLY K-PL-M8394-0-DBP 3 PARTS LIST AB 5014438 ETCH BOARD K-PC-M8394-0-DBC PC DATA PATH D-MD-5014438-0-0 5 MECHANICAL DRAWINGS D-EC-5014438-0-G 3 A B ETCH CUT DRAWING K-CS-M8394-0-DBS AB DESIGN DATA BASE SUDS AB D-CS-M8394-0-WCSA 8085, A/D BUS, AND CONTROL D-CS-M8394-0-WCSB A B CONSOLE PANEL AND CPU CONTROL D-CS-M8394-0-WCSC CONSOLE INTERFACE AB D-CS-M8394-0-WCSE 8085 MEMORY AND CONTROL D-CS-M8394-0-WCSF BASIC CLOCK GENERATOR A B AB D-CS-M8394-0-WCSH CONTROL STORE DATA (00:15) AB D-CS-M8394-0-WCSJ CONTROL STORE DATA (16:23) D-CS-M8394-0-WCSK MEMORY REFRESH CONTROL AB D-CS-M8394-0-WCSL XCS WRITE AND SELECT CONTROL A B D-CS-M8394-0-WCSM OPTIONAL CONTROL STORE - HIGH AB D-CS-M8394-0-WCSN OPTIONAL CONTROL STORE - LOW D-CS-M8394-0-WCSP MODEM INTERFACE AND 8085 RAM A B FILTER CAPACITORS D-CS-M8394-0-WCSR D-BD-M8394-0-0 A WCS BLOCK DIAGRAM D-TD-M8394-0-0 WCS TIMING DIAGRAM D-GI -M8394-0-0 **ROM & PAL LISTINGS NOTES:** REV 22 REVISIONS CHG NO. *CONTROL SOURCE IS THE SUDS DATA BASE TW001 NO CONTROLLED PAPER ORIGINALS EXIST DATE 12-81 8-26-80 TITLE USED ON OPTION/MODEL DRN. "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY FERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D WCS J. CASEY 8-26-80 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ENG. SIZE CODE NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. S. LACHEY 9-19-80 B M8394-0 C COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION PROD. C. CONSIDINE 10-8-80 SHEET 1 OF 1 Market Confedence that a factor of the second of the secon







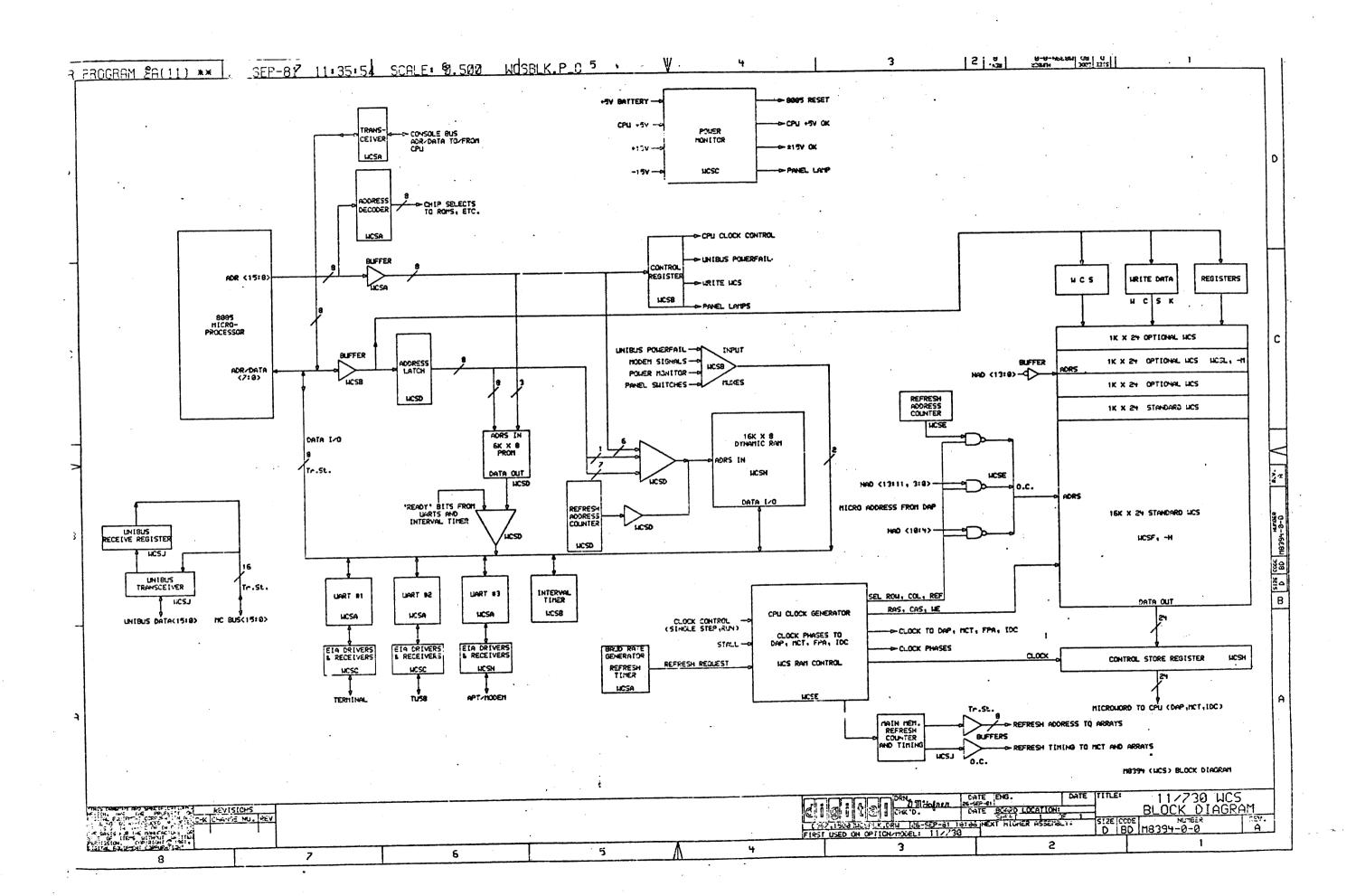
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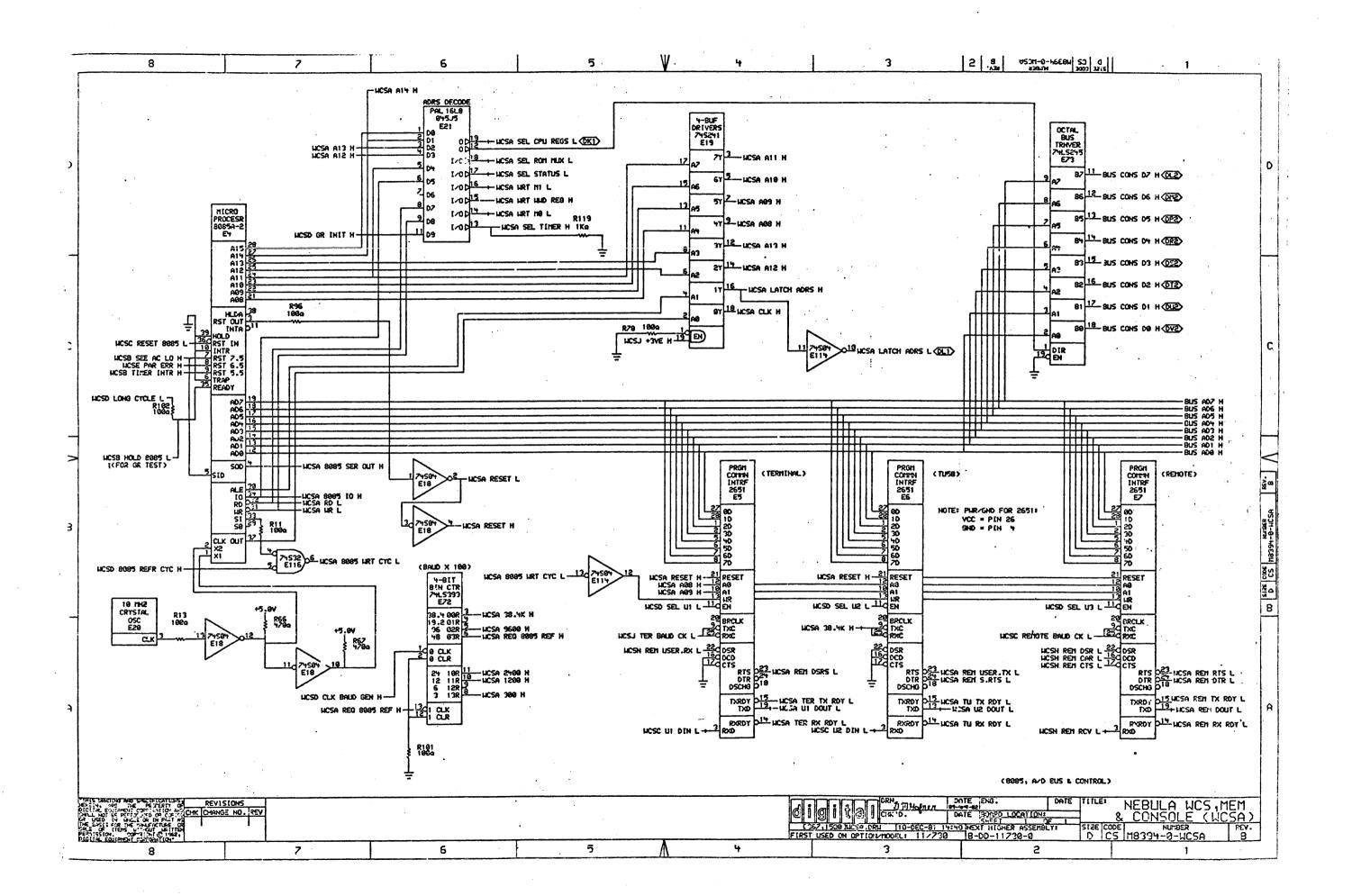
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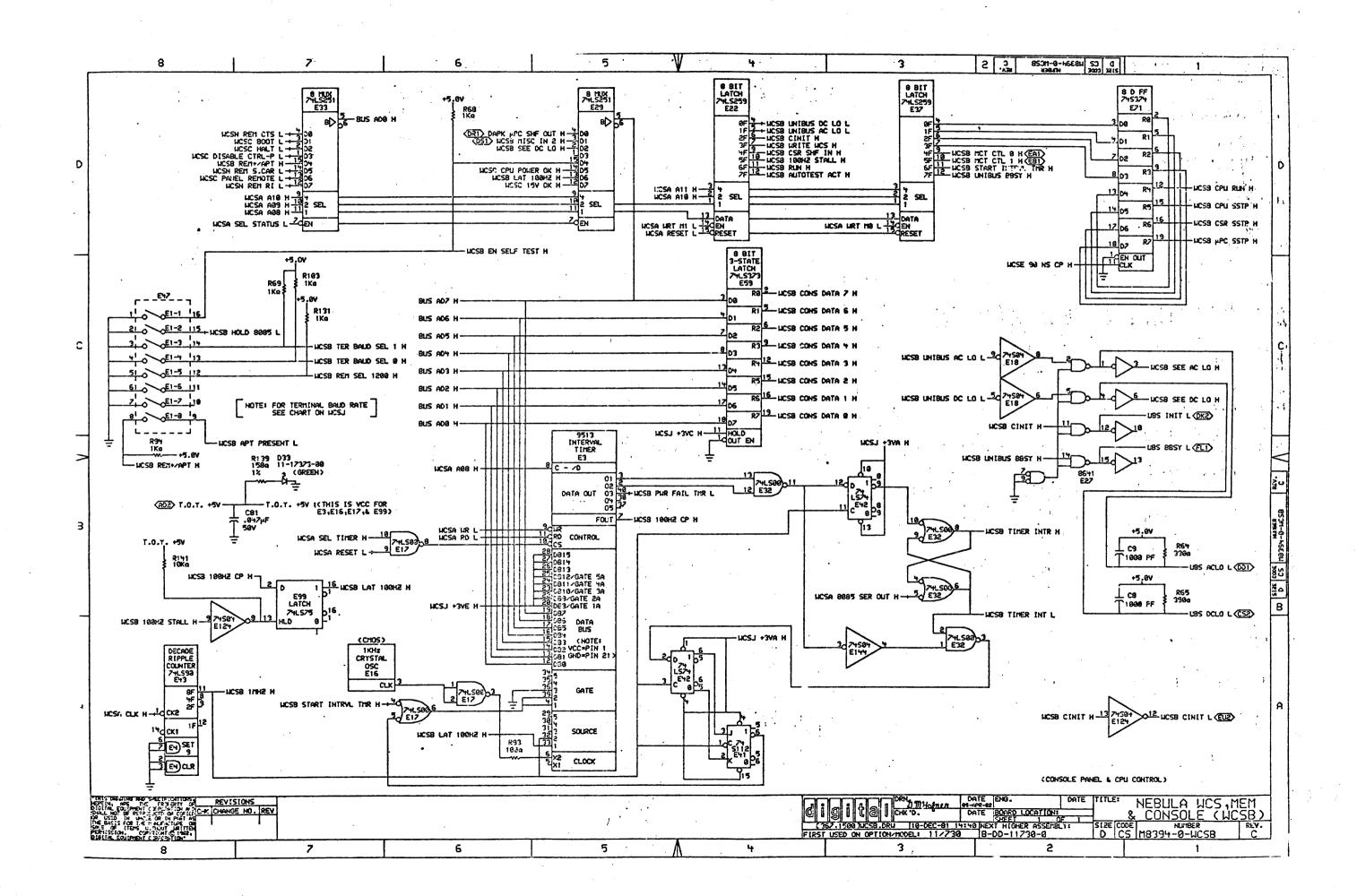
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51 38 52 39 53 40 54 41 55 42 56 43 57 44 58 45 59 40 60 47 61 48 62 49 63 50		536-00 74S10	NAND GATE-TRIPLE 3IN	1	E18,E114,E124,E144,E157 E128
53 40 54 41 55 42 56 43 57 44 58 45 59 40 60 47 61 48 62 49 63 50	19105	74574	FF-D DUAL, EDGE TRIGG	ž	E113,E140
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55 42 56 43 57 44 58 45 59 40 60 47 61 48 62 49 63 50		550-00 74S174	FF-D HEX SHIFT PEG., 4BIT PIGH	1	E38
56 43 57 44 58 45 59 40 60 47 61 48 62 49 63 50		552-00 748194 957-00 748175	FF=D QUAD COMMON CLO	2	E98,E111,F125,E138,E139,R1 E36,E97
58 45 59 40 60 47 61 48 62 49 63 50		579=00 8641	TRANSCEIVER, BUS, QUA	5	E27,E44,E56,E70,E83
59 46 60 47 61 48 62 49 63 50		745139	DECODER-DUAL TWO-INP	2	E30, E100
60 47 61 48 62 49 63 50		712-00 74551 108-00 339	AND-OR GATE-INVERT D VOLT CMPRTR, QUAD	2	E35,E127
61 48 62 49 63 50		369-00 74502	NOR GATE-QUAD 21N, PO	1	E31 E112
63 50		147-00 LS257	MUX 1 OF 2 (QUAD)	2	E23,E24
		48-00 LS251	MUX 8 INPUT, TRI-STA	2	E29,E33
		746-00 DEC 74837	NAND GATE-QUAD 2IN	3	E110,E115,E129
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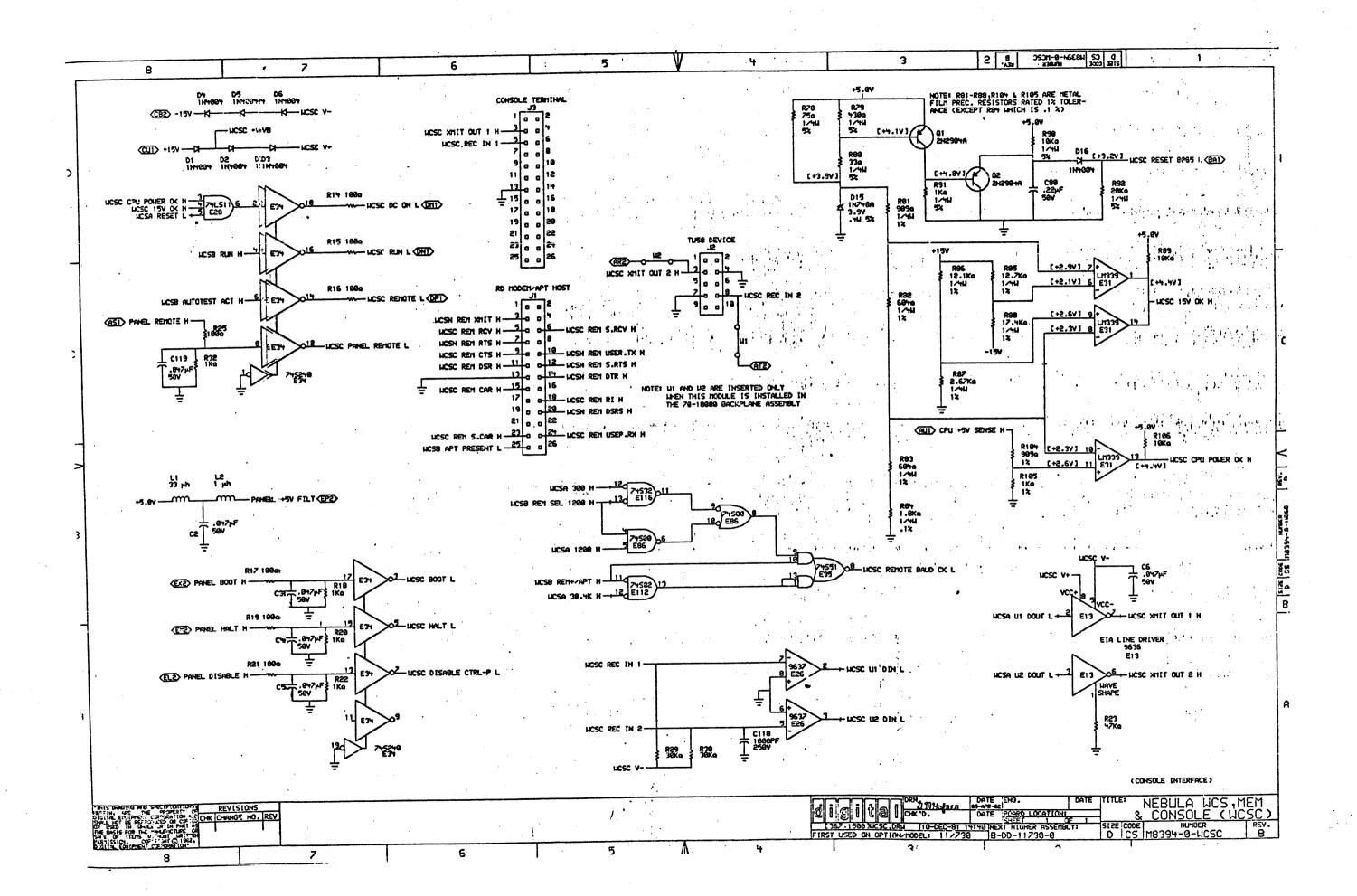
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67	54			1912830-00		COUNTER, ASYNCH UP, D	E	1		E43	•	•	
68	55			1912860-00	LS259	LATCH BBIT		2		E22,E37			
69	56			1913340-00	74532	OR GATE-QUAD 21N		1	•	E116			
70	57			1913462-00	745240	OCTAL BUFFER, INVERT	'I	2	•	E46,E34			
71	58			1913493-00	745241	OCTAL PUFFER, TRI-ST		1		E19			
72	59			1913670-00		LATCH BBIT TRASP T		3		E55,E60,E69			
73	60		100	1913671-80		FF-D OCTAL TRISTATE		1		E71			
74	61			1913777-00	L3240	DRIVER, LINE, OCTAL,		1	, , ,	E1			
75	62			1913887-00	748258	MUX 1 OF 2(QUAD)TP		2		E40,E48			
76	63		A	1914214-00	L8374	FF-D OCTAL EDGE TRI	G	3		E74,E88,E10	1		
77	64			1914451-00	74LS393	COUNTER, BINARY, 4811		4		E2,E45,E72,			
78	65		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1915019-00		NAND BUFFER-GUAD 21		7		E126, E141-E	143,E153,E15	5,E156	
79	60			1915218=00	L5245	TRANSCEIVER, BUS, OC		1 .		E73			
80	67			1915219-00		FF-D OCTAL-TRANSPAR		1		E59			
81	68			1915415-00	9636	DRIVER, DUAL, EIA RS		4 .		E13,E9,E10,			•
82	69			1915416-00	9637	RECEIVEP, DUAL, RS-4	2	5		E8,E11,E15,	E25,E26	÷.	
63	70			2115103-00		RECEIVER-PCI		3		E5-E7			
84	71			2116957=02		1K MOS RAM 70NS		6		E78,E82,E89	,E93,E102,E1	68	
85	72			2116962-00		DS .8MICRO SEC. INST	(R	1	•	E4	*		
86	73			2117247-02	2118-1			8		E61-E68			
87	74		-	2117247-04	2118	PAM, 16KX1, DYNAMIC, 1	10 7	!4		E118-E123,E	132-E137,E14	5-E150,	
									CONT	E158-E163			٠.
88	75			2117497-00	9513	SYSTEM TIMING CONTR	50	1		E3			
39	77			23002K5-00	K5-01			1		E85			
90	78			23912K4-00	K4-01	PAL ARRAY		1	•	E39			
91	79			23024K3-00	K3-01	PAL, REG. CON		1		E58			
92	80		•	23045J5-00	J5-01	PAL, LOGIC, CON		1		E21	,		
93	91			7010918-01	DIODE STICK			5		D13,D14,D17	-D26,D30-D32		•
94	82			9000024-01		LED FLANGE, .121 OD		2					
9,5	83			9079149-00		G, P.C. BOARD, .025		3		TP1-TP3			
96	84		:	9009185-00		E, INSULATED, BLACK		2		W1, W2			
	100		A	1390905=04	R NETWORK 1	5-470 5.0 % 16P]	N	1		E87			
	102			23034F2-00	F2-01			1		E54		•	
	103			23035F2=00	F2-01			1		E53			
	104			23936F2=00	F2-01			1		- E51			
	105			23037F2=00 1215006=02	F2-01	TEM IS NOT USED ***		1 ,		E49			

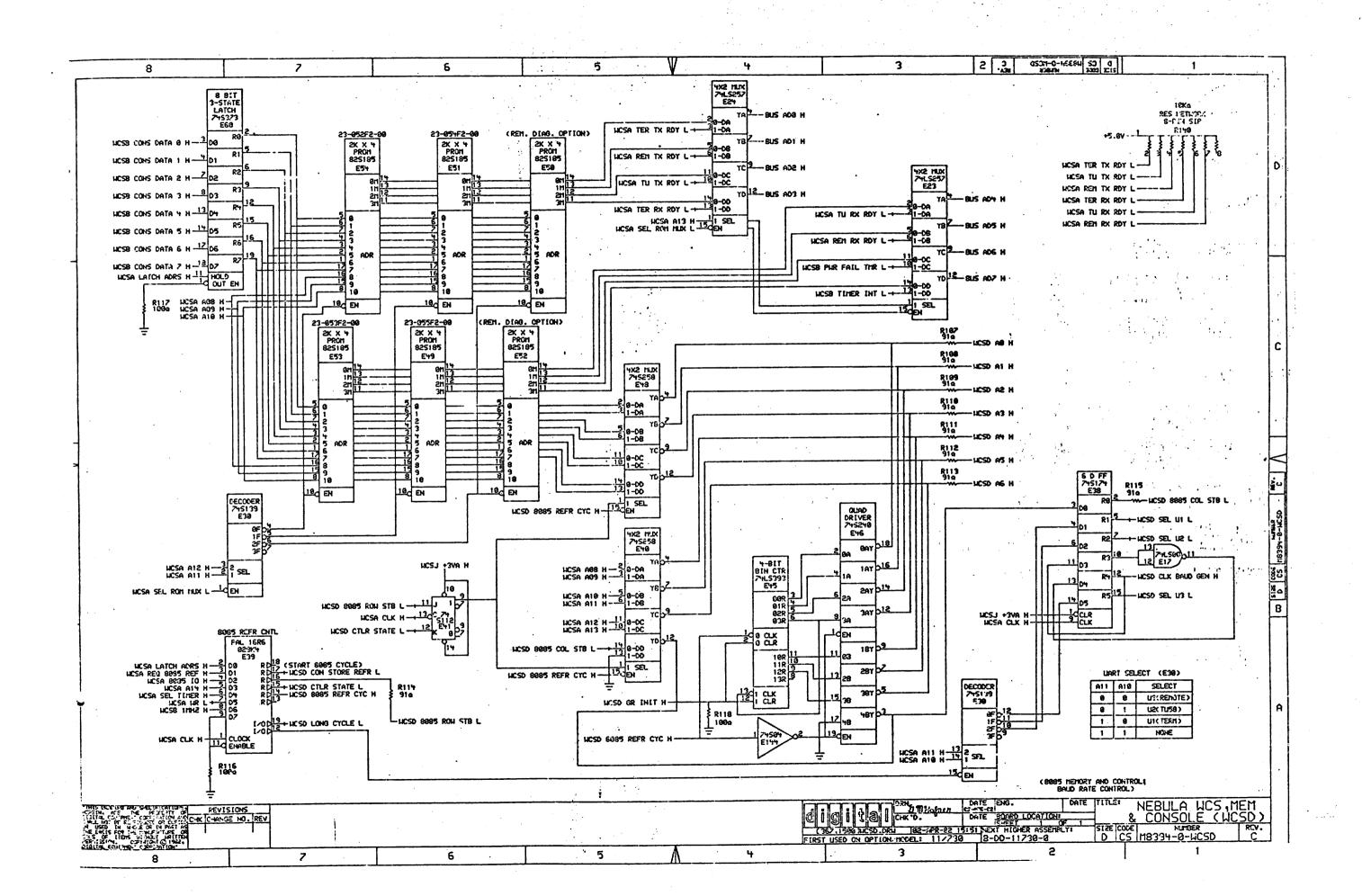
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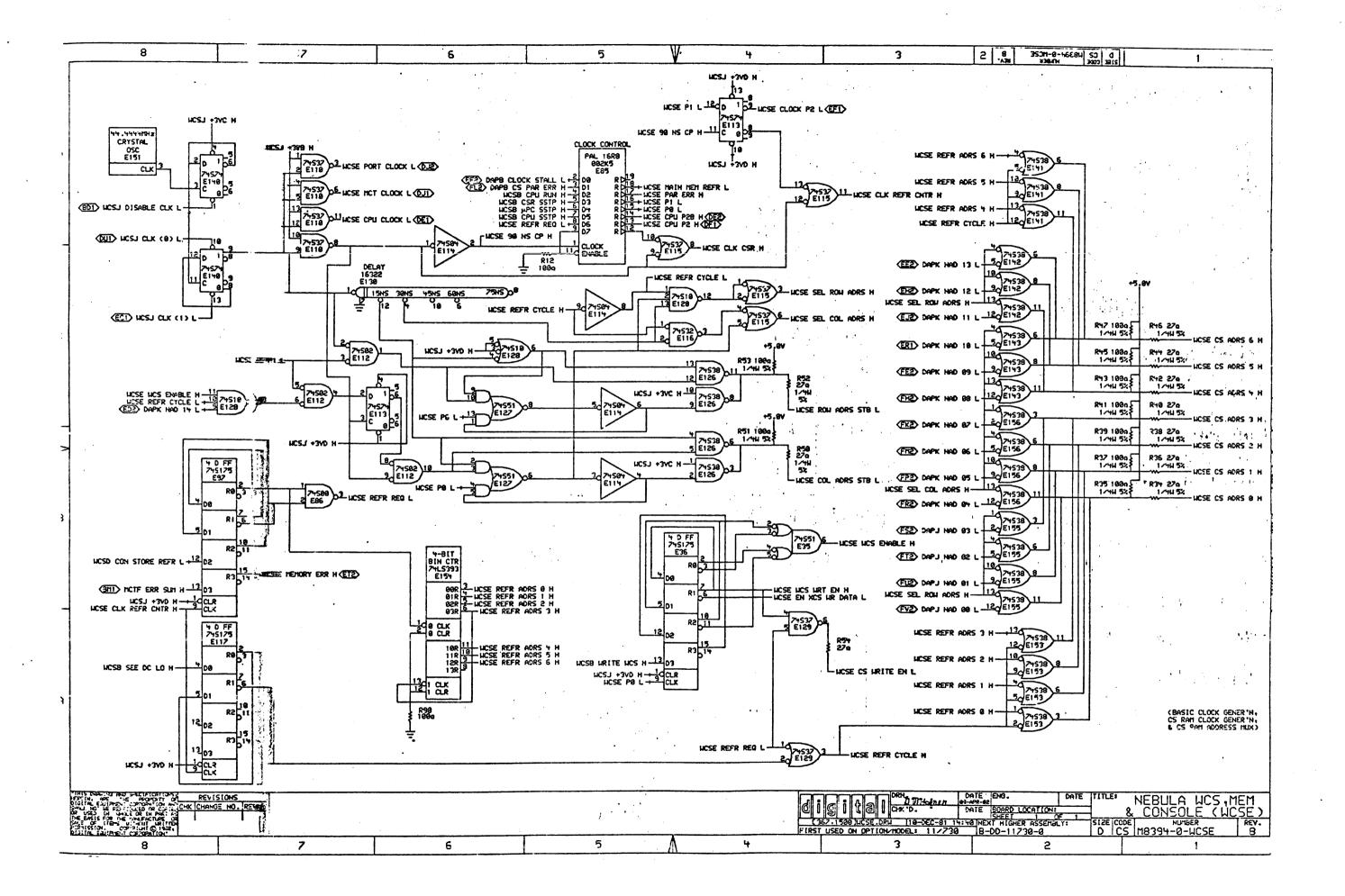


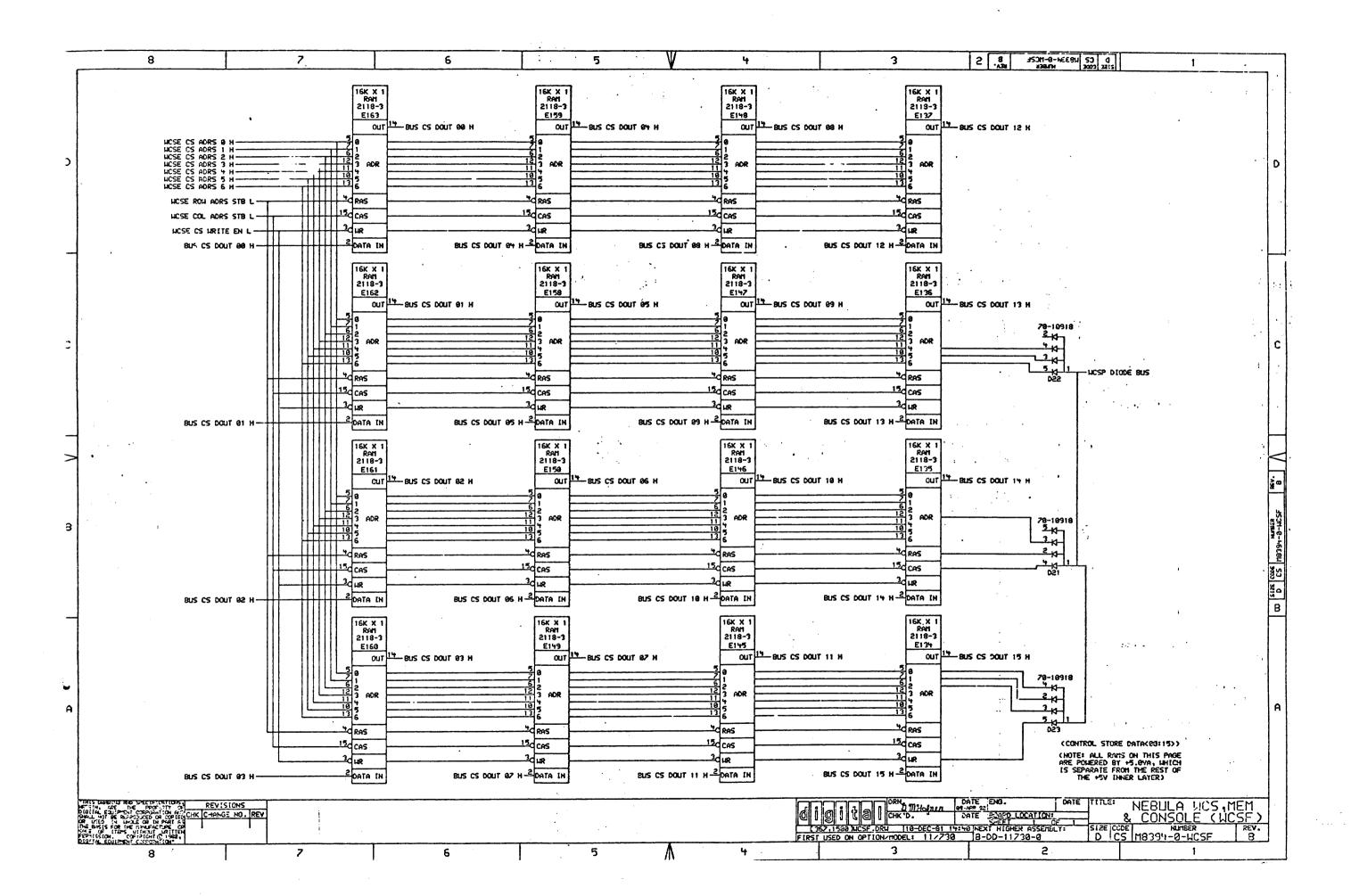


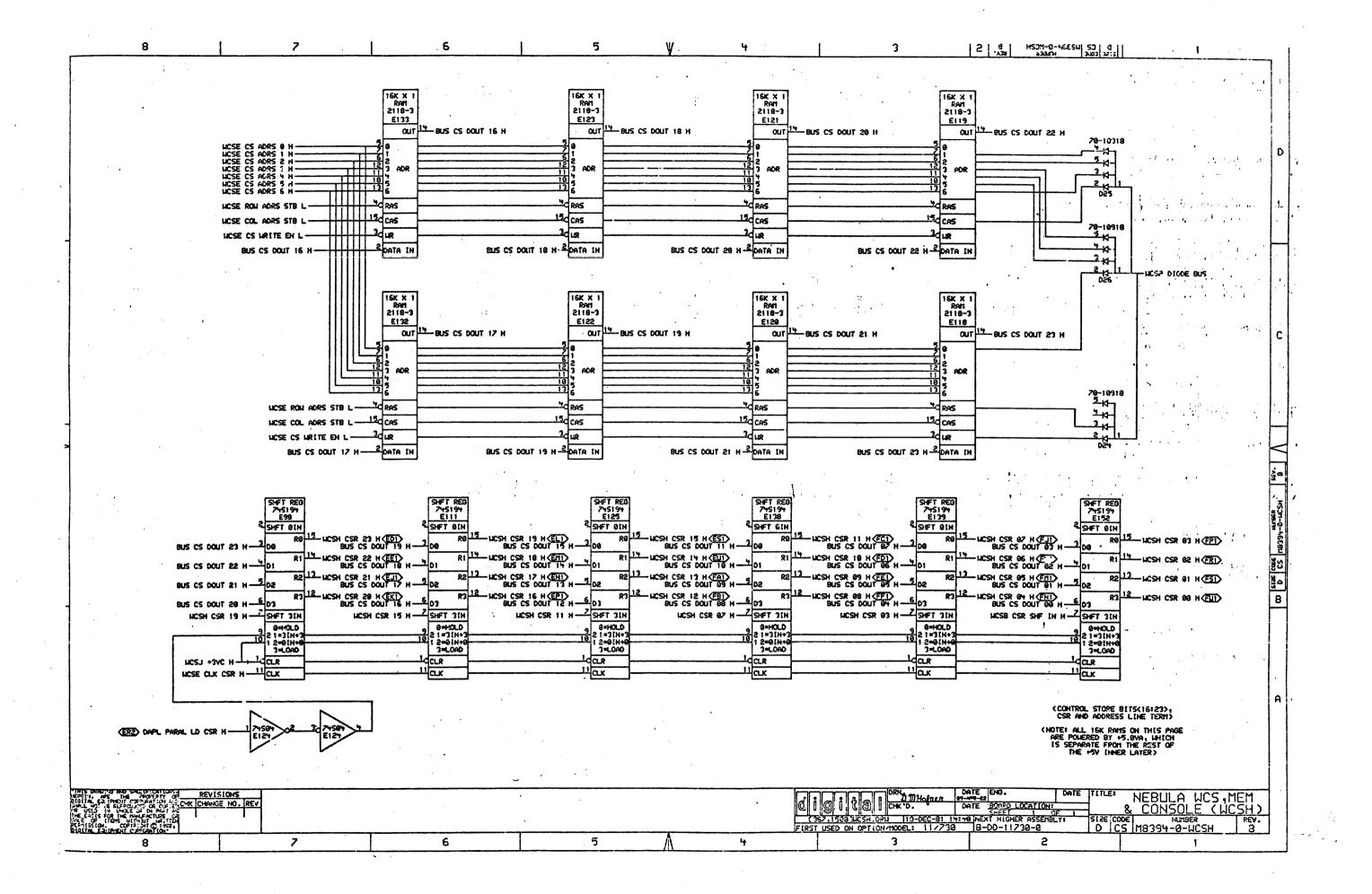


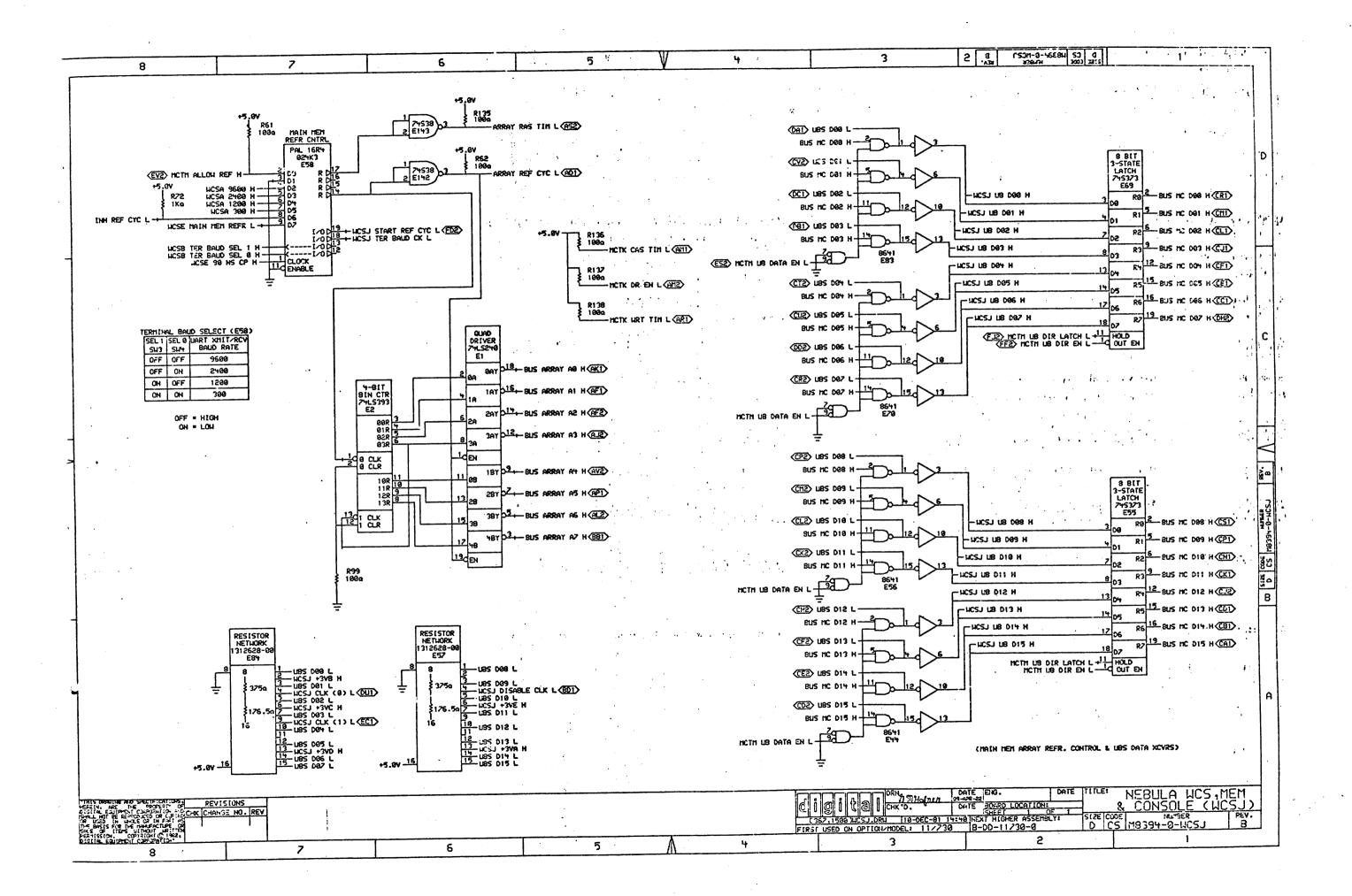


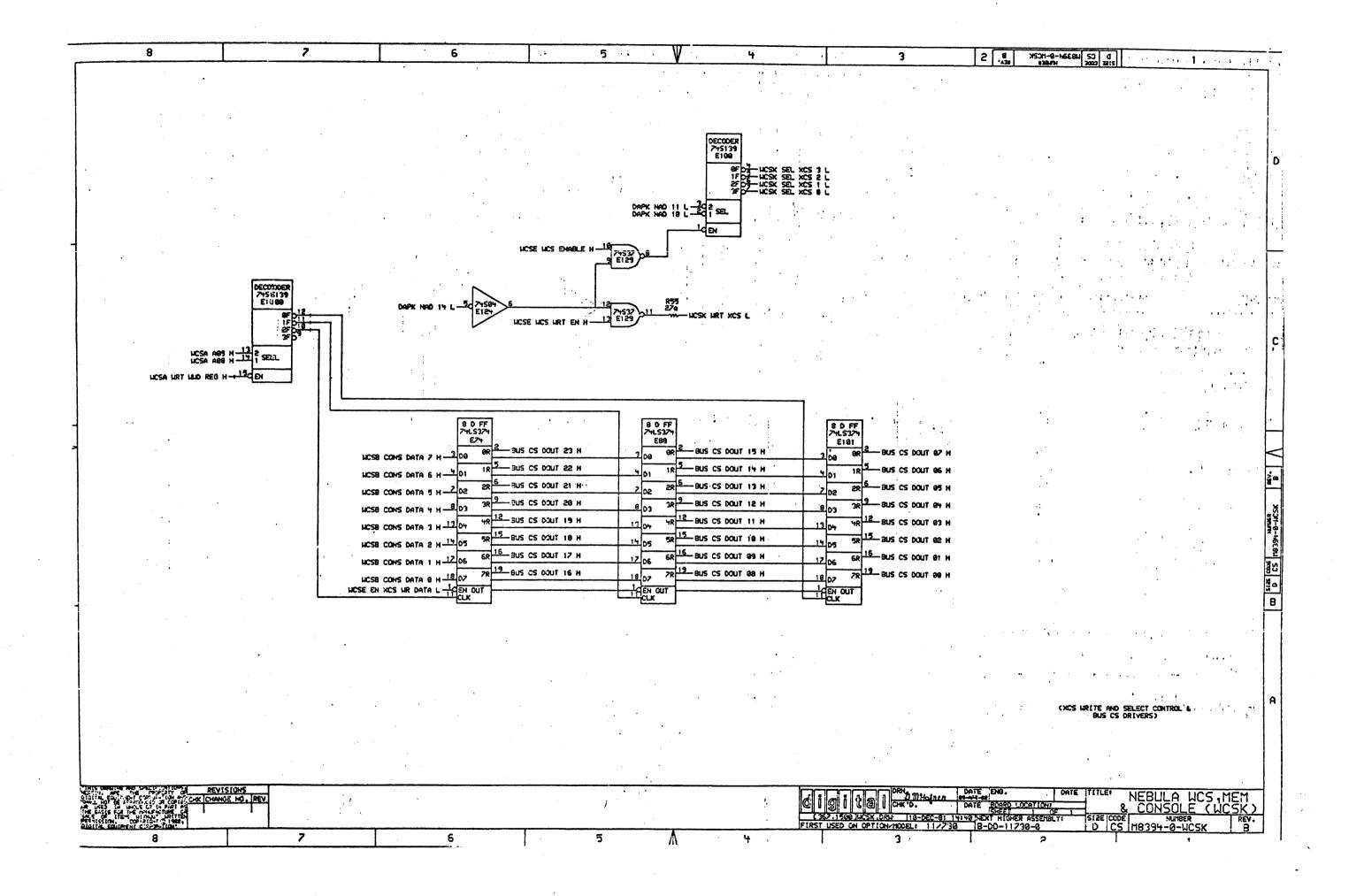


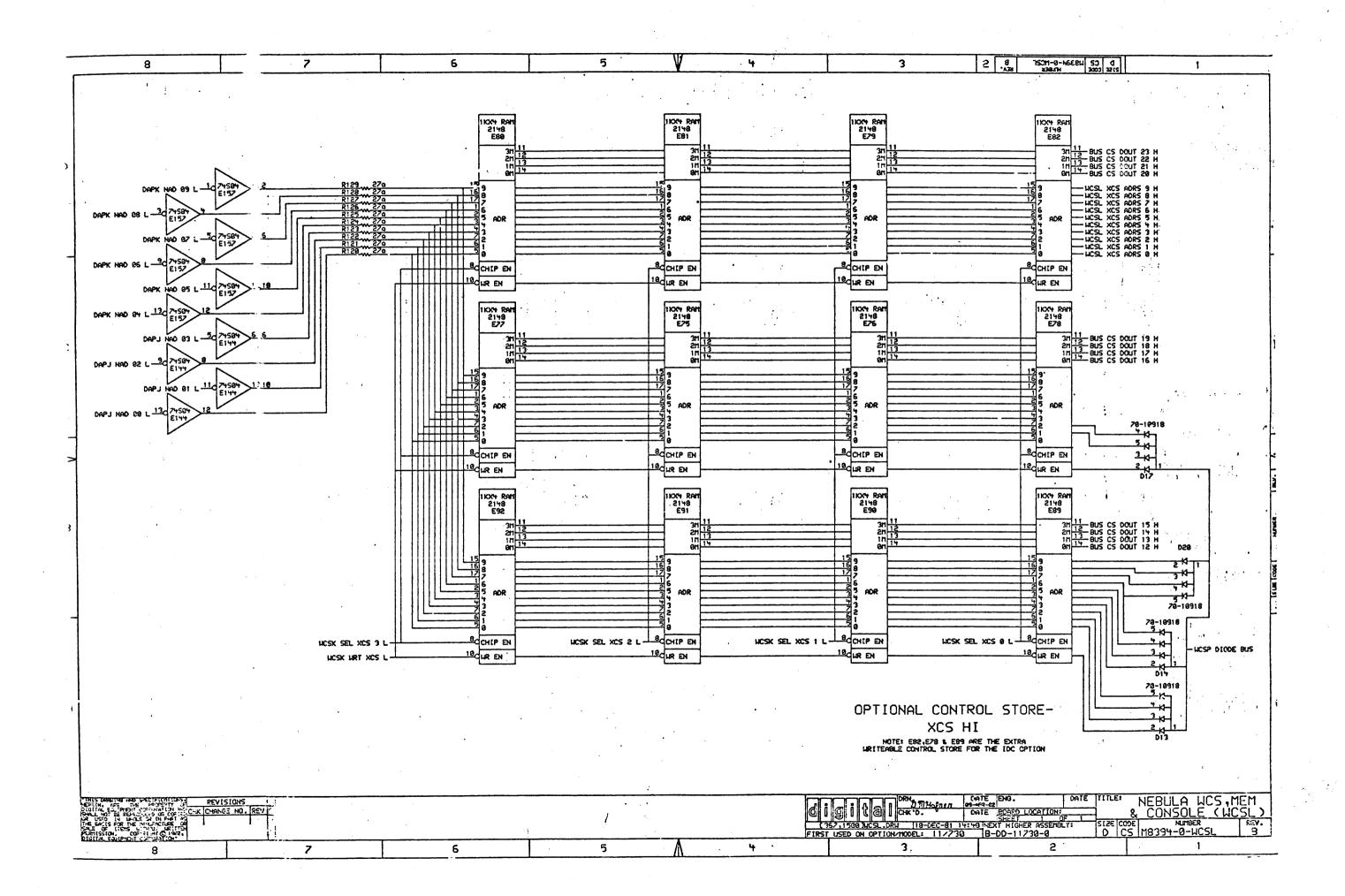


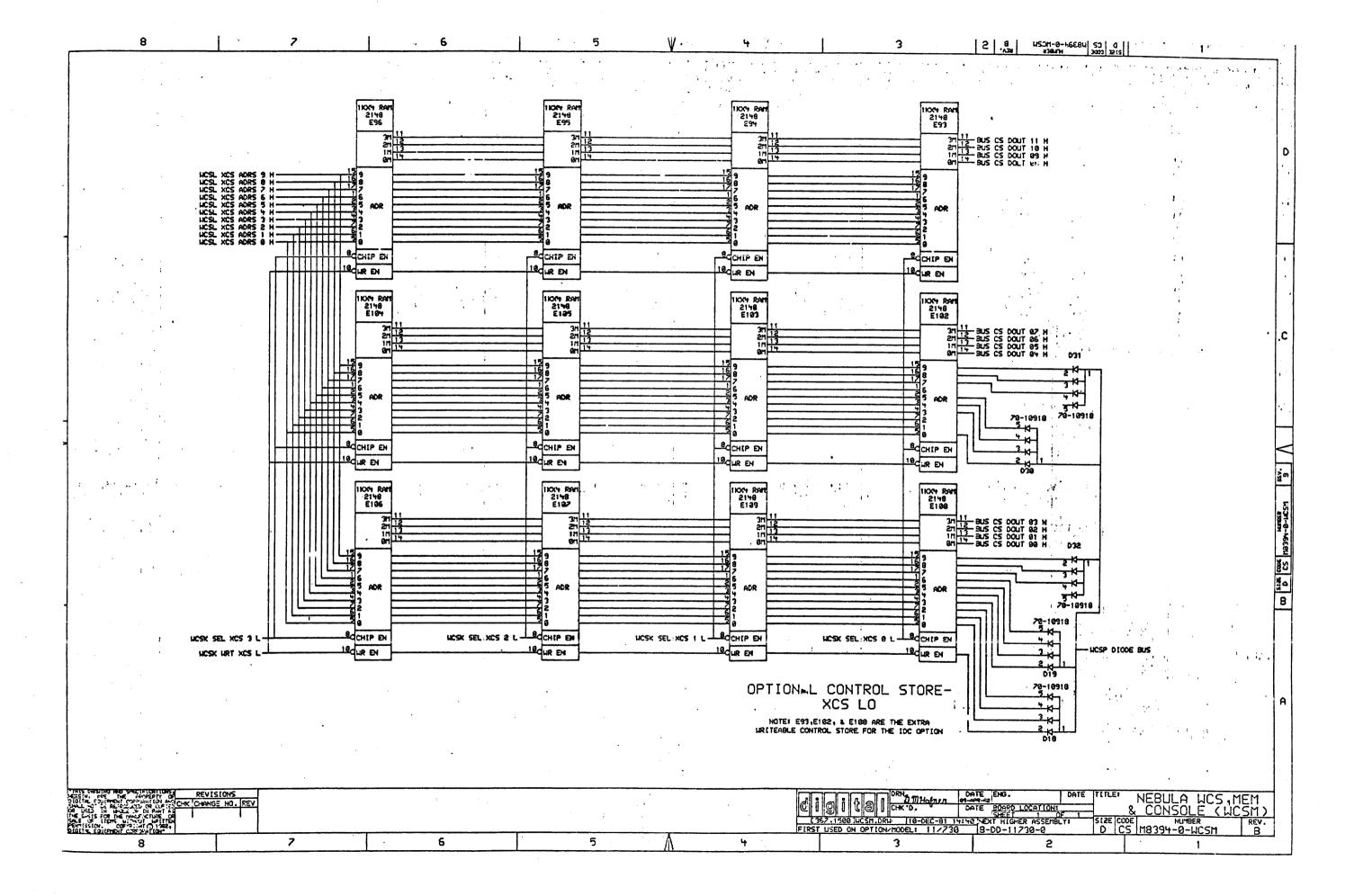


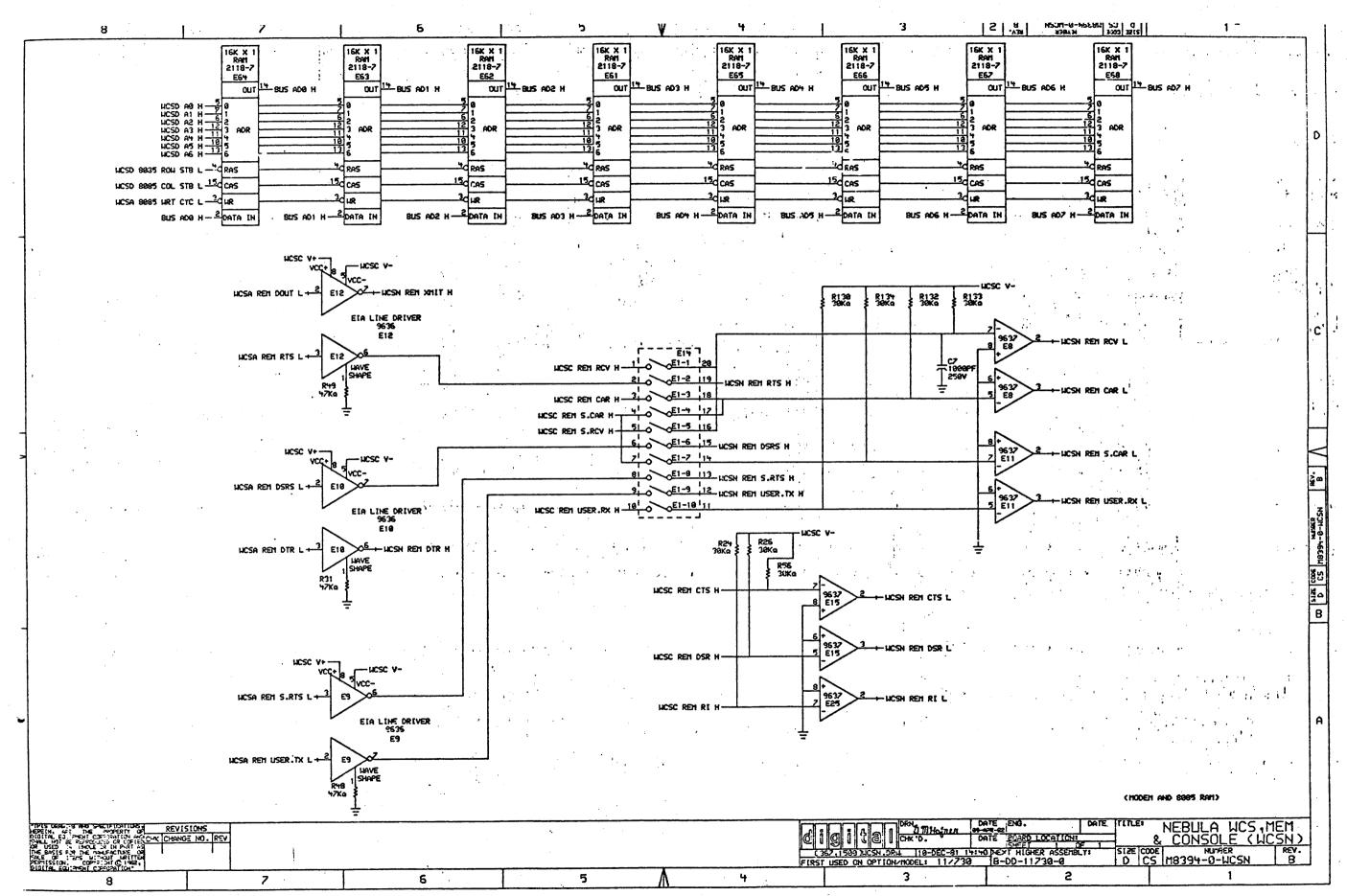


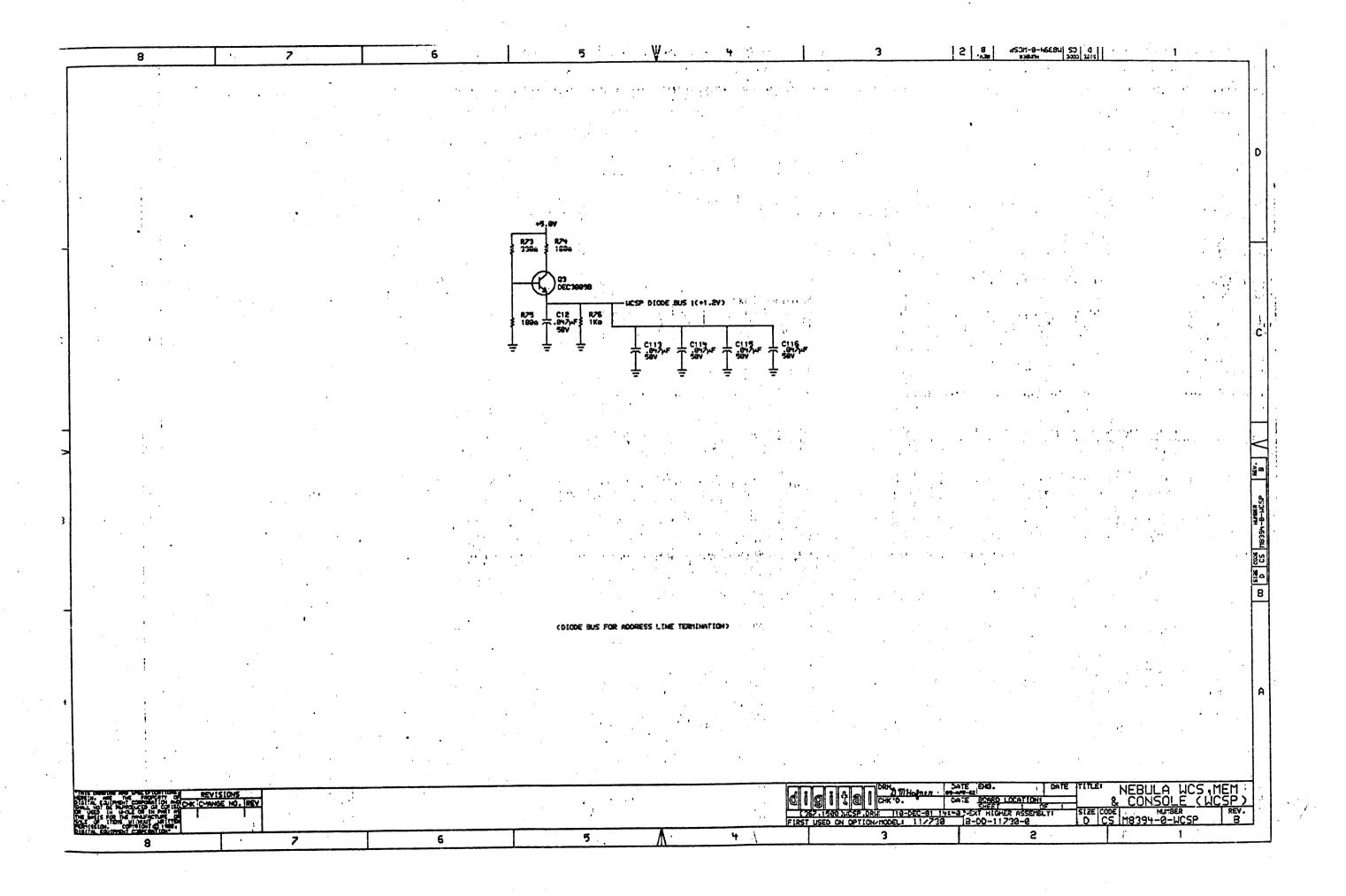


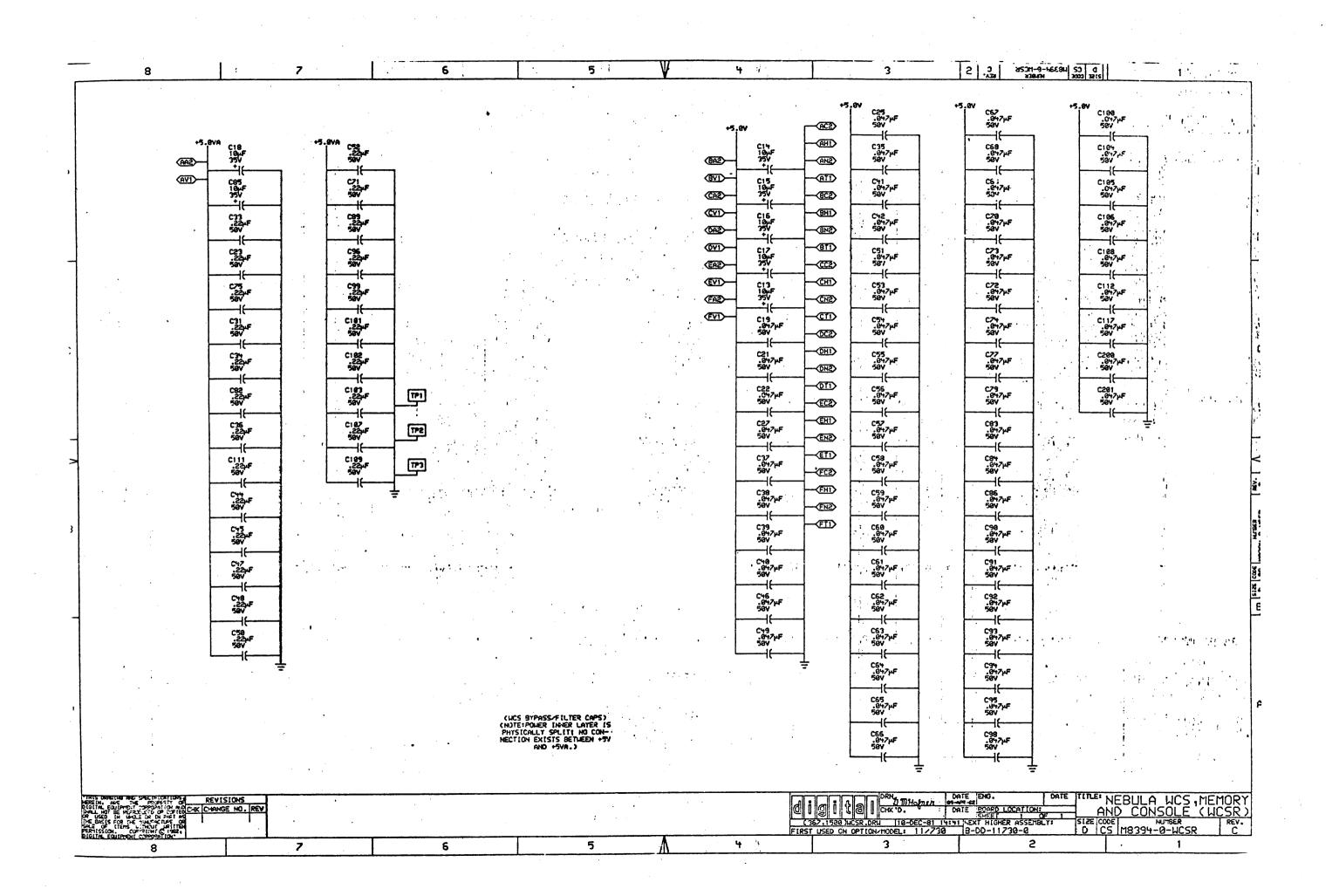












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•	BADY MANORAL AC AND T			•		•					
	PART NUMBER: 23-045.5-1	*		PART NUMBER: 23-924K3	-08		PART NUMBER: 23-804K4	-80			
•				DEVICE TYPE: PALIERY SCHEMATIC SHEET #:0-CS	E_H0204_D_1105	•	DEVICE TYPE: PALIERS				
•	LOCATION/DESCRIPTION:	EZ1+ ADDRESS DECODE			E58/ MEHORY RETRECY CONTRI	OND SERVENCED	SCHEMATIC SHEET #10-0		•		
•	ASSIGNED PIN NUMBER			ASSIGNED PIN NUMBER:	TENNINE PERSONAL	C MV SEGGENCER	ASSIGNED PIN NUMBER:	E39/ HICRO PROCESSOR DYNAMIC	RAM CONTROLLER		
	1- A7 2= A6 3- A5 4- A4	8	15- URT LUID.REG 16-/URITE .MI 17-/SEL .STATUS	1= REGISTER.CLK	8=/INHIBIT.REFRESH	15=>REFR.PEIDING	1= CLOCK	8= NC	15= STATE		-
	5- A3	11=/TSE 12- DIR	18=/SEL_ROM_MUX 19=/SEL_CPU.RE0S	e- Allow.refr.cyc 3= Preload 4- 9600.eaud	9-REFR.REQUEST 10= GROUND 11- REG.OUT.EN	16-/STATE 17= RAS 18- TERM.BALD	e- ALE 3= REQUEST.REFR	9- RÉSET 10- GROUND	16-/RAS 17= REFRESH.DONE		-
	6= 10 7= NC	13= SEL.TIMER 14=-HRITE.NO	29= VCC	5= 2400.BALID 6= 1200.BALID	12= BALD.SEL.0 13- BAUD.SEL.1	19=/ST "T REFR.CYC	7- IQ 5- A14 6- HC	11- OUT.EN	. 18-/START.8885.CYC 19-/LONG.CYCLE		
				7= 309.BALD	14= REFR.CYCLE	. —	7= HC	19-LIART.ENA 14- REFRESH.CYC	\$8- VCC		
	EQUATIONS			EQUATIONS:				·	•		ŀ
	IF(TSE) SEL.CPU.RES: +IOMAZ#LR		•		R.CYC:=REFR.PENDING#ALLOW.F	FFP CYC	EBUATIONS:	. =			
	IFITSET SEL.ROHLMU	75= /10#/A7#/A6#/95#R0	•	+STATE +REFR.CYCLE		u niulu	START.9085.CYC:=A	LE #START.8005.CYC#A14			
•		(Swiftman) (Swift)		STATE := REFR. PENDIN	GEREFR CYCLE STATE ALLO	.REFR.CYC=VFRELDAD	RASI =-RASIREFRESI +RASISTATE	.cre _			
		· ISMAPINASINASINANINASIRO · ISMAPINASIASIANINASIR		+REFR.PENDING +PRELOAD*ALLC	PRAST/PRELOAD H.REFR.CYC	•		CYC=/RAS=/IOHA19	•		
		*580 :10m/A7m/A6m/A5m/A4mA3mid		REFR.PENDING:=REFR	R.REQUEST#/REFR.PENDING#/REF.RESH#/PRELOAD	FR.CYCLE	/STATE: =/START.88	es.cyc			
	IFETSE3 HRITE.HO-:	EDE-APINAS NASINAHAR		+REFR.PENDING +PRELOAD=IHHI	*/RAS#/PRELDAD		+RAS +∕A14				
	IF(TSE) /SEL.TIMER:-	:h= *80		REFR CYCLE REFR	R.PEHDIHOM/RAS#/PRELOAD		REFRESH.CYC:=STA	RT.9895.MC .crc			
	165 4/184			+PRELOAD**REFR	*/STATE */PRELOAD		+RASISTATE +VREFRESH.CY	C=/REGUEST .REFR			
	₩A3			/Ras refr. pendil +/refr.cycle	I/PRELOAD		+∕REFRESH.CY	C=REFRESH.DONE C=VRAS=ALE=VSTATE			
	IFTTSE3 ∕ÞIR≔ 10∞√	######################################		+PRELOAD=BALIC	.5EL.0	· · · · · · · · · · · · · · · · · · ·	+RESET				
				+/BAUD.SEL.1×	X -/BAUD.SEL.1 =/BAUD.SEL.0= BAUD.SEL.0=1204.8AUD BAUD.SEL.0=2104.8AUD	369 .BALID	/REFRESH.DONE:=/R +/REFRESH.DO	EQUEST.RSFR NEW REFRESH.CTC			H
				+BAUD.SEL.1*E	PALD .SEL .0×9800 .BALD			=5TART.9885.CYC#A14			_
							IFTVCCRART.CHIP.	SEL:=Start.8865.CYC=IO:A11=/R	45		. -
			•				LIART . ENA : -START .8	865 .CYC=10=A: \=×RAS			
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E EASIS POR THE THIRDS THE PROPERTY OF THE PRO				•	,	DSK1 GL C581	1.72FE 1186, 1508] 10-DEC-81 10 D ON OPTION-HODEL: 11/739	DATE PROSP LOCATION: 23 NEXT HIGHER ASSENSEYS	AND PAL	LISTINGS	
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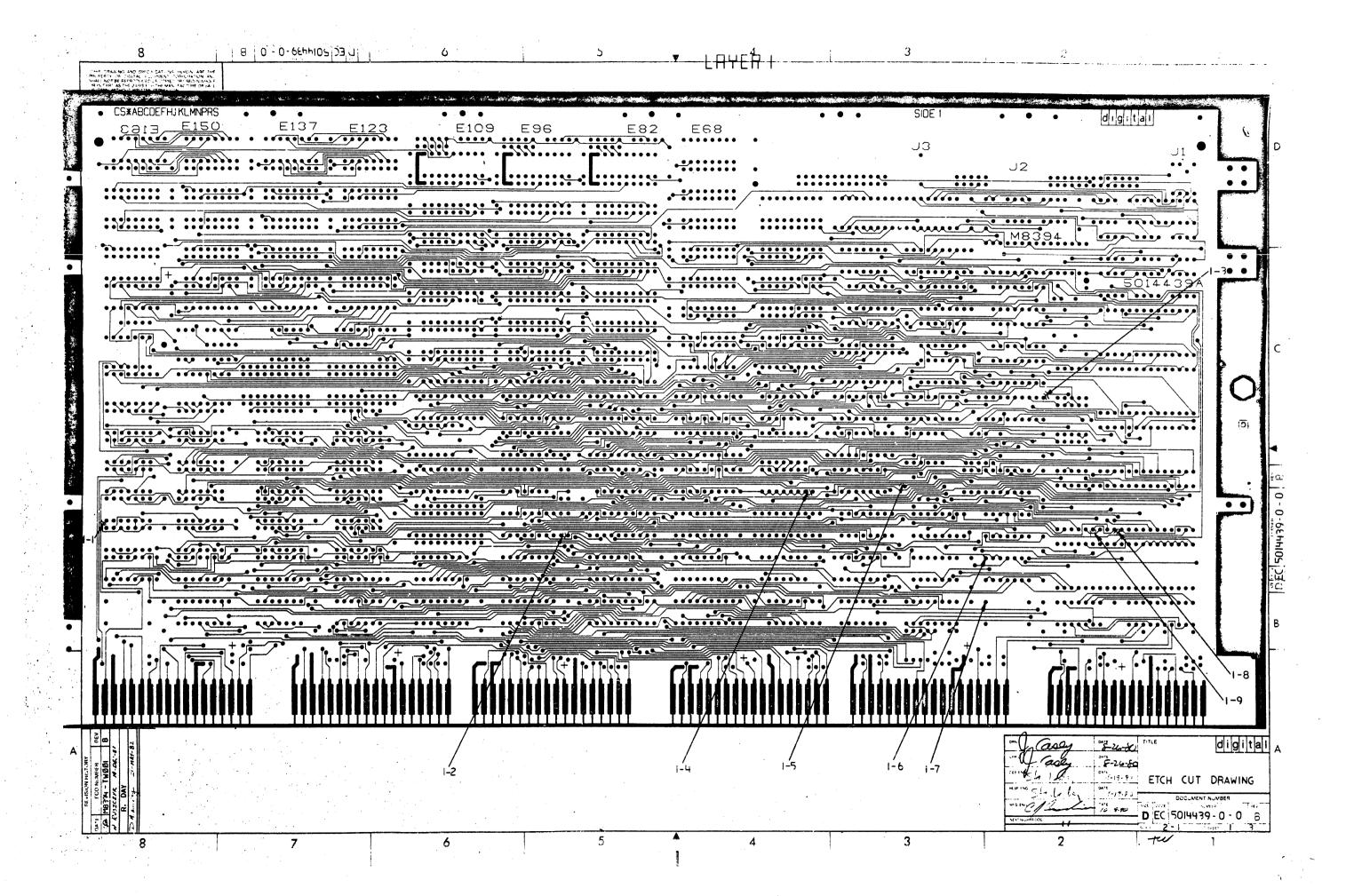
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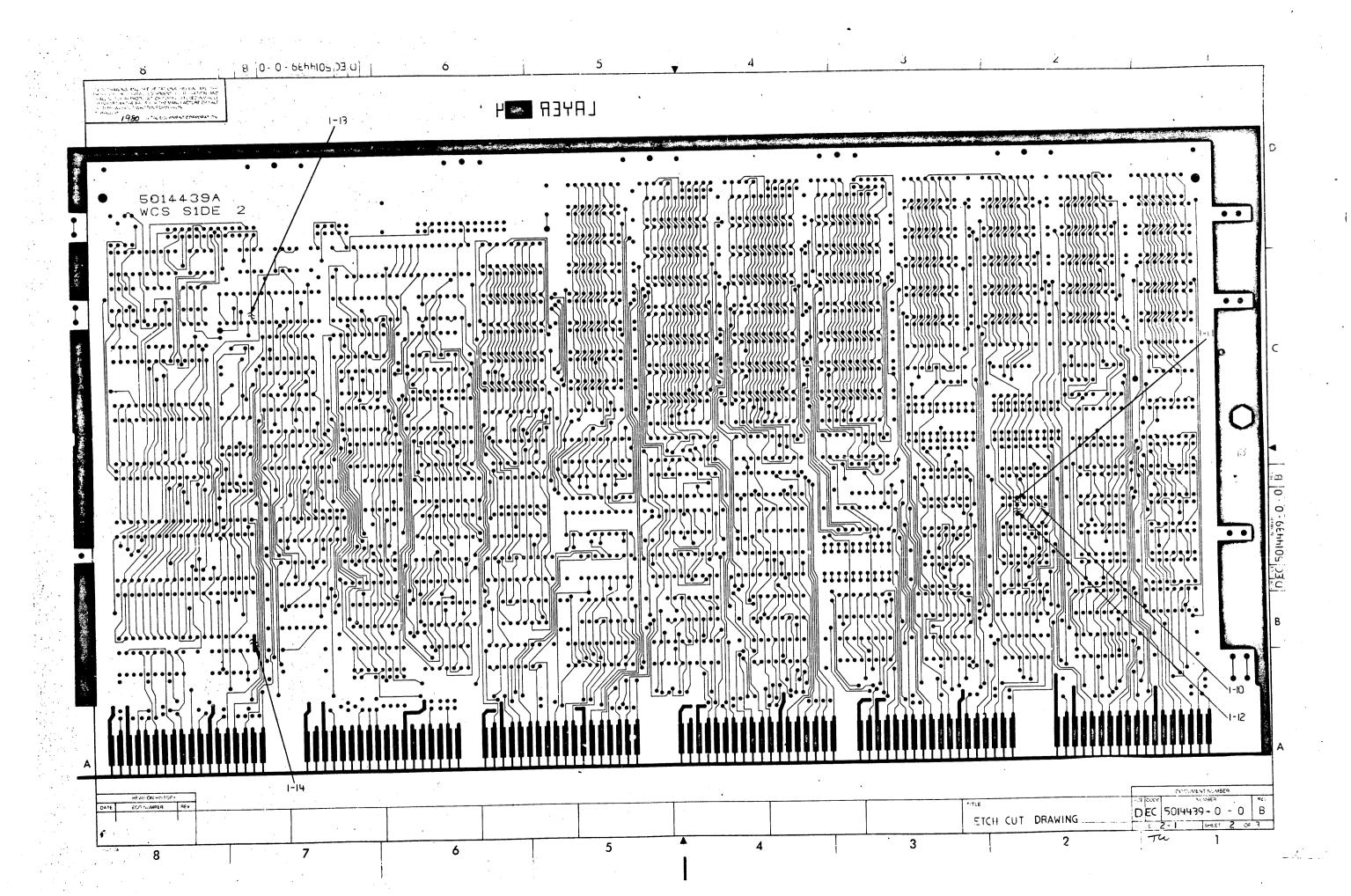
D CF H638+-6-6 3 6 5 7 8 PART NUMBER: 23-ROCKS-00 DEVICE TYPE: PALIGR8 SCHEMATIC SHEET # D-CS-H839+-2-HCSE LOCATION/DESCRIPTIONS ESS/ CLOCK CONTROL AND SINGLE STEP ASSIGNED PIN NUMBER: 1= REGISTER.CLOOK.H 2=/STRILL 3= CSPE 4= CPU.RUM 5= CSR.STEP 6= UPC.STEP 7= CPU.STEP 8=/REFR.RES 9= RESET 18= SROUND 11= RES.OUT.EN.L 12= CLK.CSR 13= CLK.CPU 14= CLK.UPC 15=/P0 16=/P1 17= PAR.ERR 18=/MRIN.HEH.REFR.REQ 19=/LRIT 20= VCC EQUATIONS! HAITI = CSR.STEPHOLK.CSR +HAITHCSR.STEP +HPC.STEPHOLK.HPC +HAITHLPC.STEP +CPU.STEPHOLK.CPU +HAITHCPU.STEP +RESET MAIN.HEH.REFR.RED:= REFR.REQ=/PO=/P1 PAR.ERR:= POW/PAR.ERR +PIW/PAR.ERR +/POW/PIW/CSPE +RESET P0:= /P0::/P1 +RESET CLK.UPC:= /PI +STALL=CPU.RLM +STALL=CPU.STEP +REFF.RCD +/CPU.RLM=/LPC.STEP=/CPU.STEP +/CPU.RLM=/LPC.STEP=/CPU.STEP +/CPU.RLM=/LPC.STEP=/CPU.STEP +RESET /CLK.CPU:= /PI +5TALL +REFR.RED +/CPU.RUH=/CPU.STEP +/CPU.RUH=MIT +RESET /CLK.CSR!= /P!
+STALL=CPU.RIN
+STALL=CPU.STEP
+REFR.REQ
+/CPU.RIN=/CSR.STEP=/CPU.STEP
+/CPU.RIN=IRIT
+RESET 23-002K5-09 DAN THOTHEN 18-002-81 DATE ENG. DATE 18-002-81 DATE SCARD LOCATION: CHECK TO SCHOOL TO TINES LICS ROM

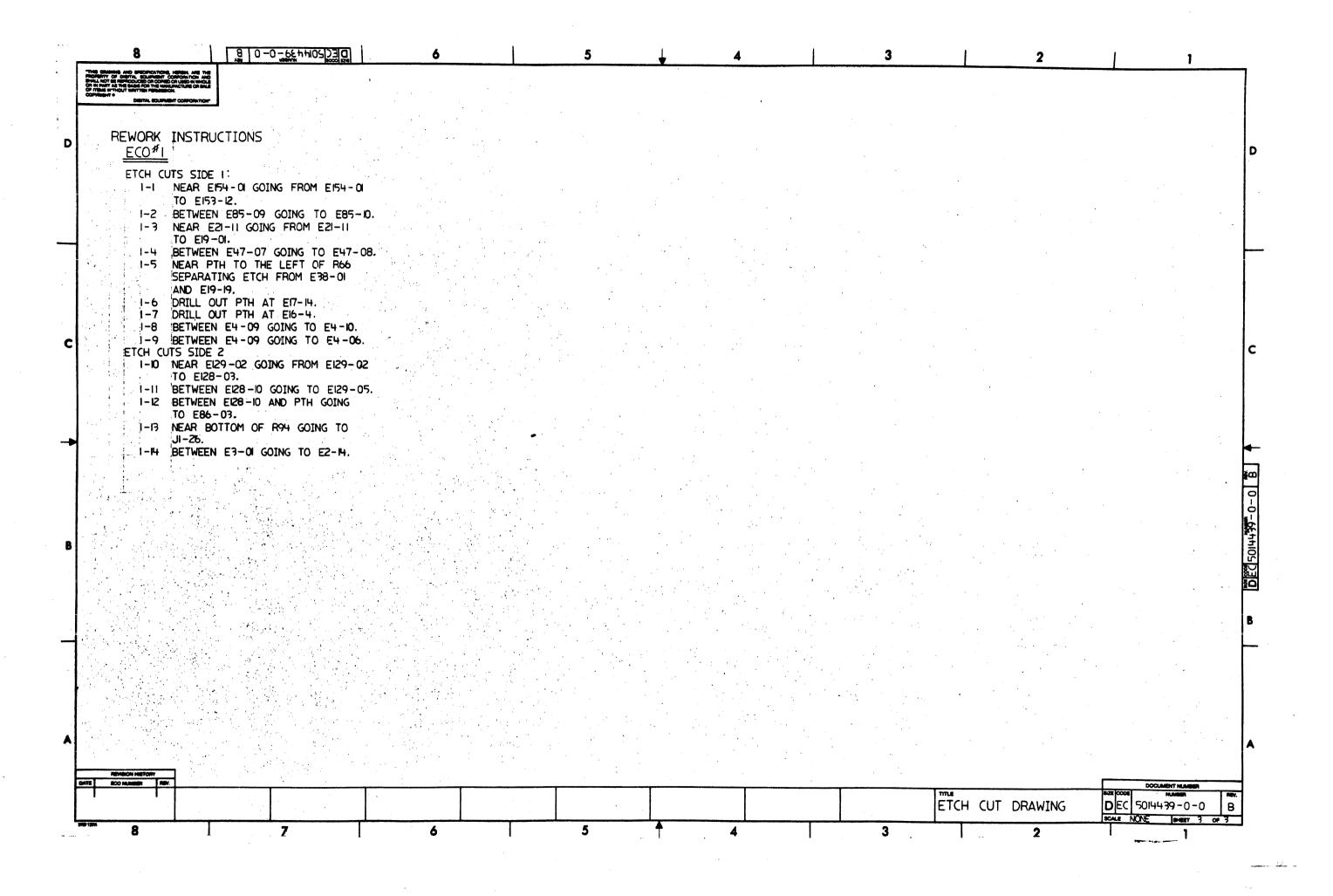
AND PAL LISTINGS

SIZE CODE | NUMBER | FEVD | GL | M3394-0-0 | A 2 7 6

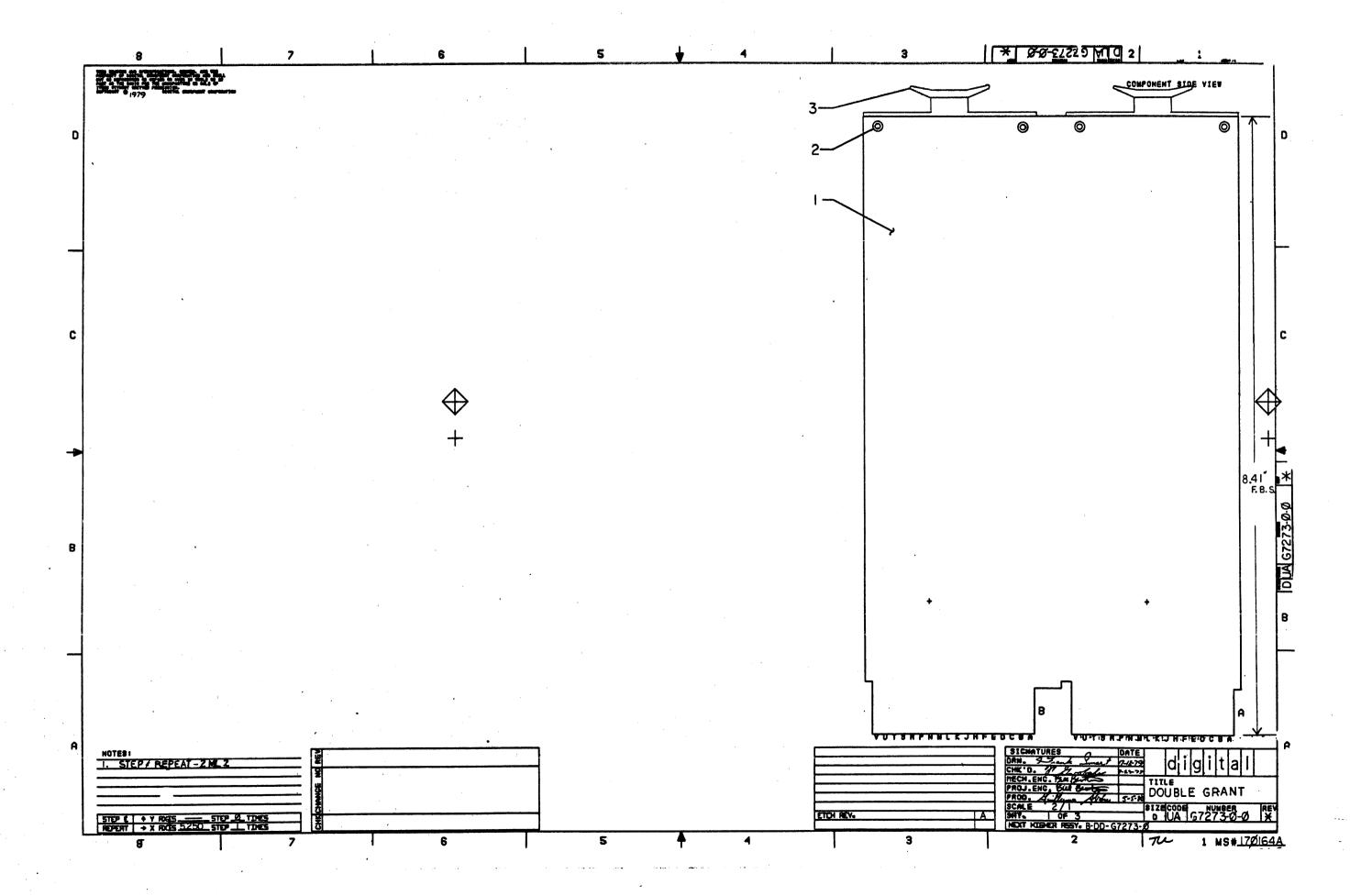
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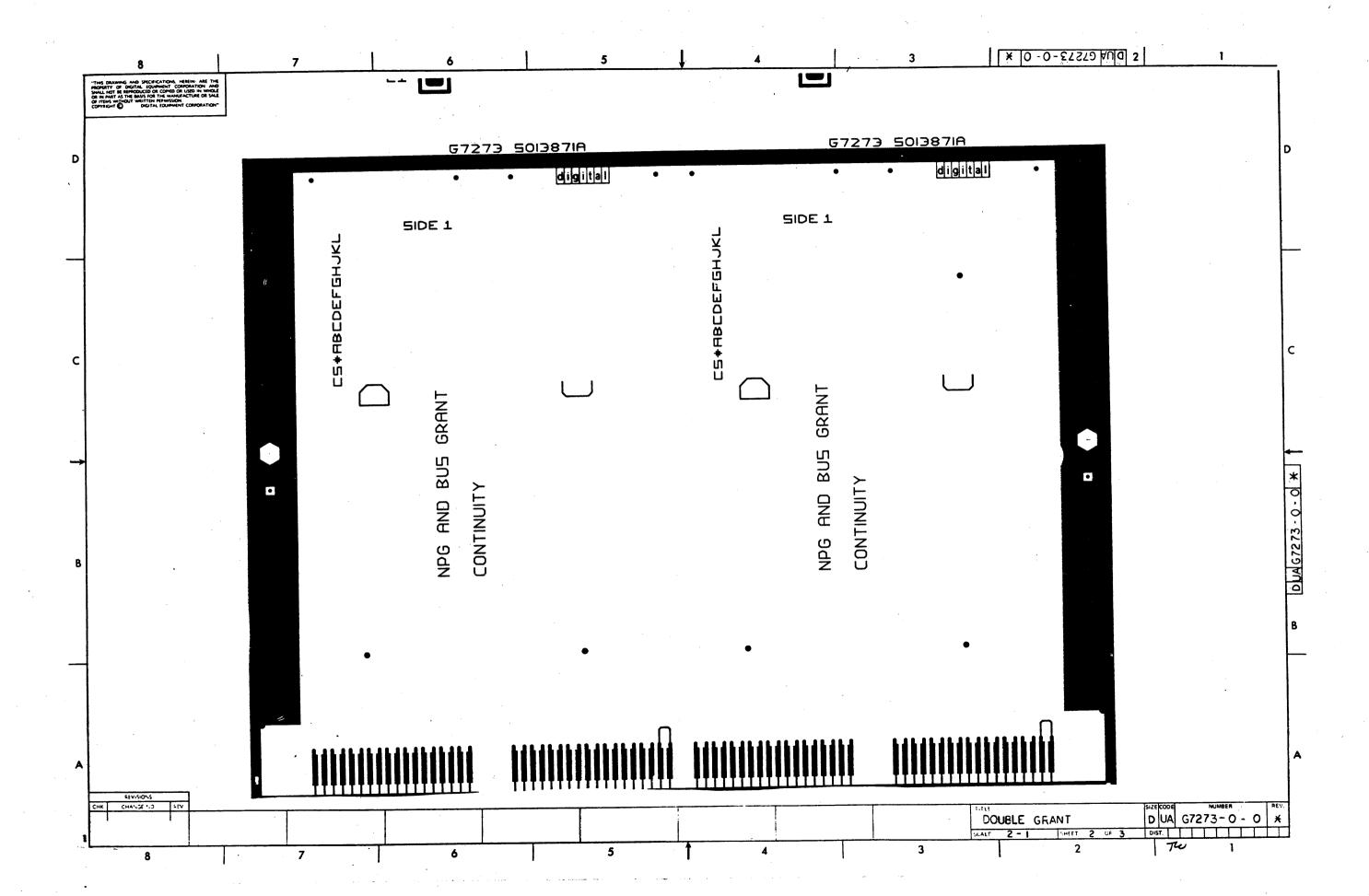


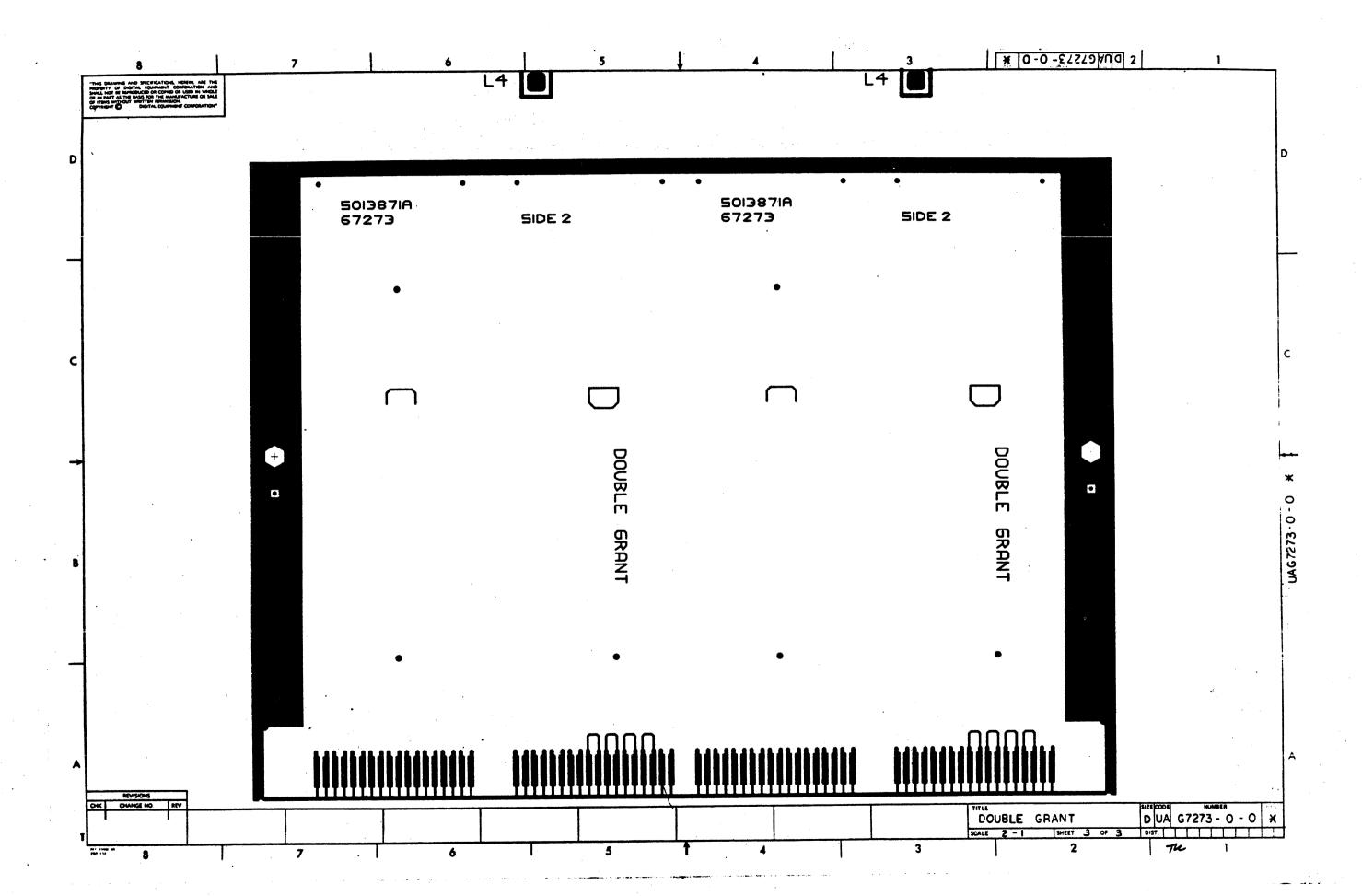




B DD C1513 - O SIZE CODE DRAWING NO. OF SHTS. PART NO. **REVISIONS DESCRIPTION** MODULE REVISION G7273 DCUBLE GRANT B-DD-G7273-0 DOUBLE GRANT D-UA-G7273-0 - C 3 DOUBLE GRANT K-FL-G7273-O-DBF I DRILL AND ETCH DRAWING ETCHED BOARD 5013871 FC DESIGN DATA BASE Α K-PC-G7273-0-DBG **NOTES:** REVISIONS DATE CHG NO. USED ON OPTION/MODEL DOUBLE GRANT "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 4-30% B DD G7273 - 0 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN REV. PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. 5580 SHEET | OF | COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION TW







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SINE ITEM DOCUMENT NUMBER

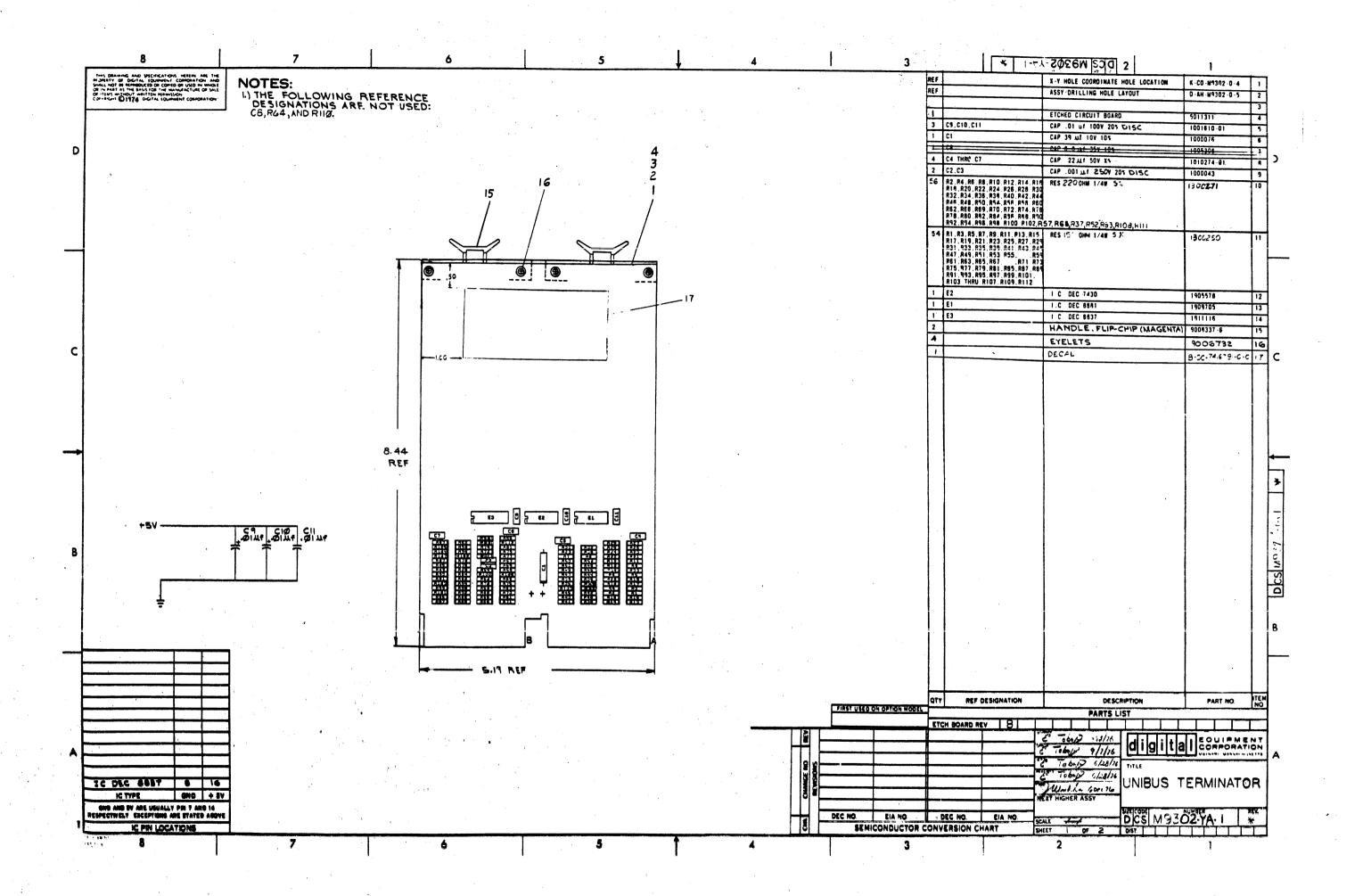
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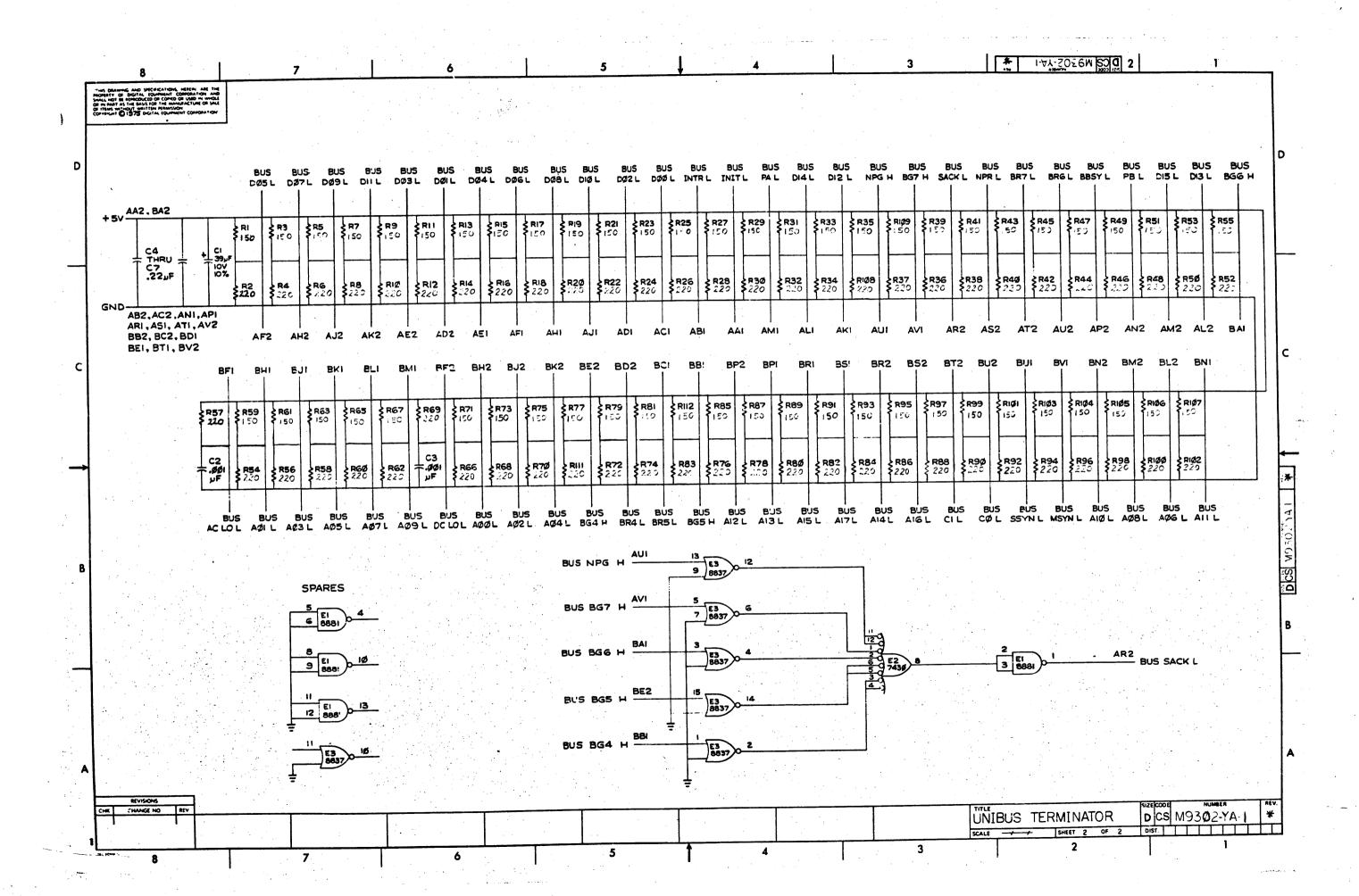
QUANTITY PFR VARIATION

1 2	1 2	р-мр-5013871-0-0		FYFLET,	BOARD FOR G7273 ROLLED FLANGE, .121 OD X	1
3	3		9008337-01	HANULE,	FLIP CHIP, GREEN	. 2

PART NUMBER

	REVISION HISTORY		·	DRN:	F.SMART	DATE: 18-JUL-79	1	Ď	Ţ	GII	Į Į.	, A , i , i
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B-TC-MS730-C-1 FIELD MAINT. PRINT SET MP01366
B-DD-MS730-C 1 MB 64K ECC MEMORY ARRAY - DRAWING DIRECTORY
B-PL-MS730-C-0 1 MB 64K ECC MEMORY ARRAY - PARTS LIST
B-DD-M8750-0 MOS MEMORY ARRAY - DRAWING DIRECTORY
D-UA-M8750-CA-DBP MOS MEMORY ARRAY ASSY
K-PL-M8750-CA-DBP MOS MEMORY ARRAY - PARTS LIST
D-CS-M8750-0-1 MOS MEMORY ARRAY - CIRCUIT SCHEMATIC

COVERED BY THIS PRINT SET MS730-CA
MS730-CA
MS730-CB
MS730-CC
MS730-CD
MS730-CF

MS730-C

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MP01366

DRN. DATE **USED ON OPTION/MODEL** A. ROCHA 13APR82 11730 TITLE: CHK'D DATE CHG. NO. 1 M3 64K ECC MEMORY ARRAY REVISIONS Alkolin BARRE Z FIELD MAINT. PRINT SET PROJ. ENG. DATE DM. Kandry 20APR82 TC SIZE NUMBER REV. B FIELD SERV. DATE MS730-C-1 DIST. 2 APRE SHEET I OF 1

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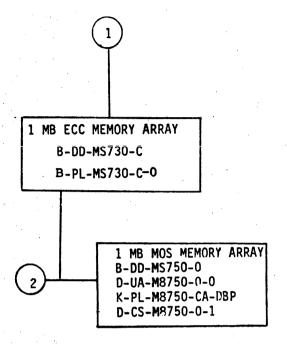
	UNIT VARIATIONS
VAR	TITLE
MS730-CA	1 MB 64K ECC MEMORY ARRAY - QTY 1
MS730-CB	1 MB 64K ECC MEMORY ARRAY - QTY 2
MS730-CC	1 MB 64K ECC MEMORY ARRAY - QTY 3
MS730-CD	1 MB 64K ECC MEMORY ARRAY - QTY 4
MS730-CF	1 MB 64K ECC MEMORY ARRAY - QTY 10
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TITLE 1 MB 64K ECC MEMORY ARRAY

SHEET OF

B DD

NUMBER MS730-C

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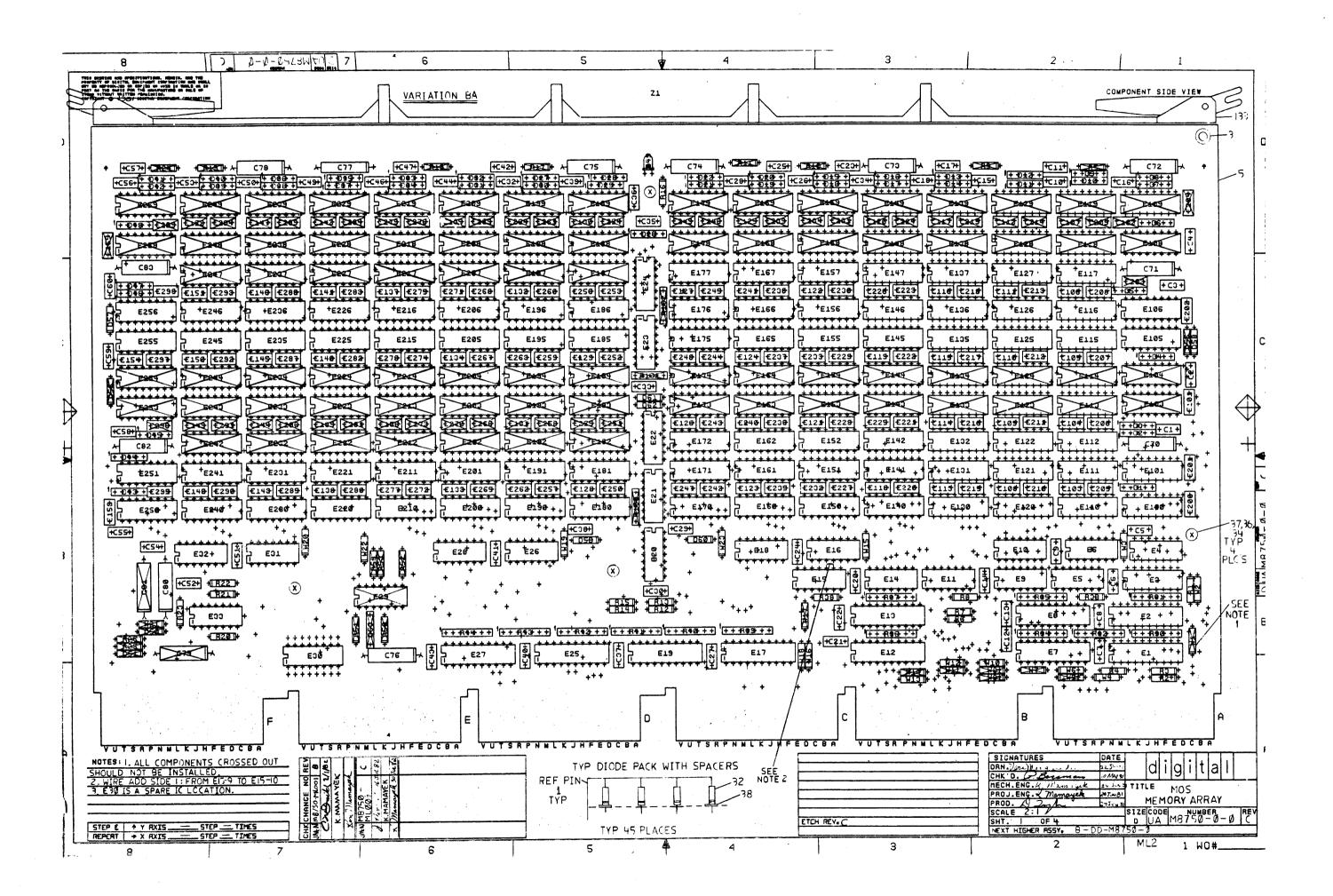
FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION
	MP01366	ETGLD MAINTENANCE DOINT SET (MD)	-			
1	B-TC-MS730-C-1	FIELD MAINTENANCE PRINT SET (TC)	+=			
	B-DD-MS730-C-1	FIELD MAINTENANCE PRINT SET (MP) FIELD MAINTENANCE PRINT SET (TC) 1 MB 64K ECC MEMORY ARRAY - DRAWING DIRECTORY	 -	-		
	B-PL-MS730-C-0	1 MB 64K ECC MEMORY ARRAY - PARTS LIST	-			
	B-51-W21-70-r-7	THE OTE LCC PILITURY ARRAY - TARGET STATES				
2	B-DD-M8750-0 D-UA-M8750-0-0	1 MB MOS MEMORY ARRAY - DRAWING DIRECTORY 1 MB MOS MEMORY ARRAY ARRAY	E/M	<u> </u>		
	D-UA-M8/5U-U-U	1 MD MOS MEMODY ADDAY - DADTS LIST	-	-		
	K-PL- M8750-CA-DBP D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - PARTS LIST 1 MB MOS MEMORY ARRAY - CIRCUIT SCHEMATIC	E	-		
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TYP	E: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL	digi	lall	TITL	1 MB 64K ECC MEMORY	ARRAY SHEET 3 OF 3 B DD MS730-C A

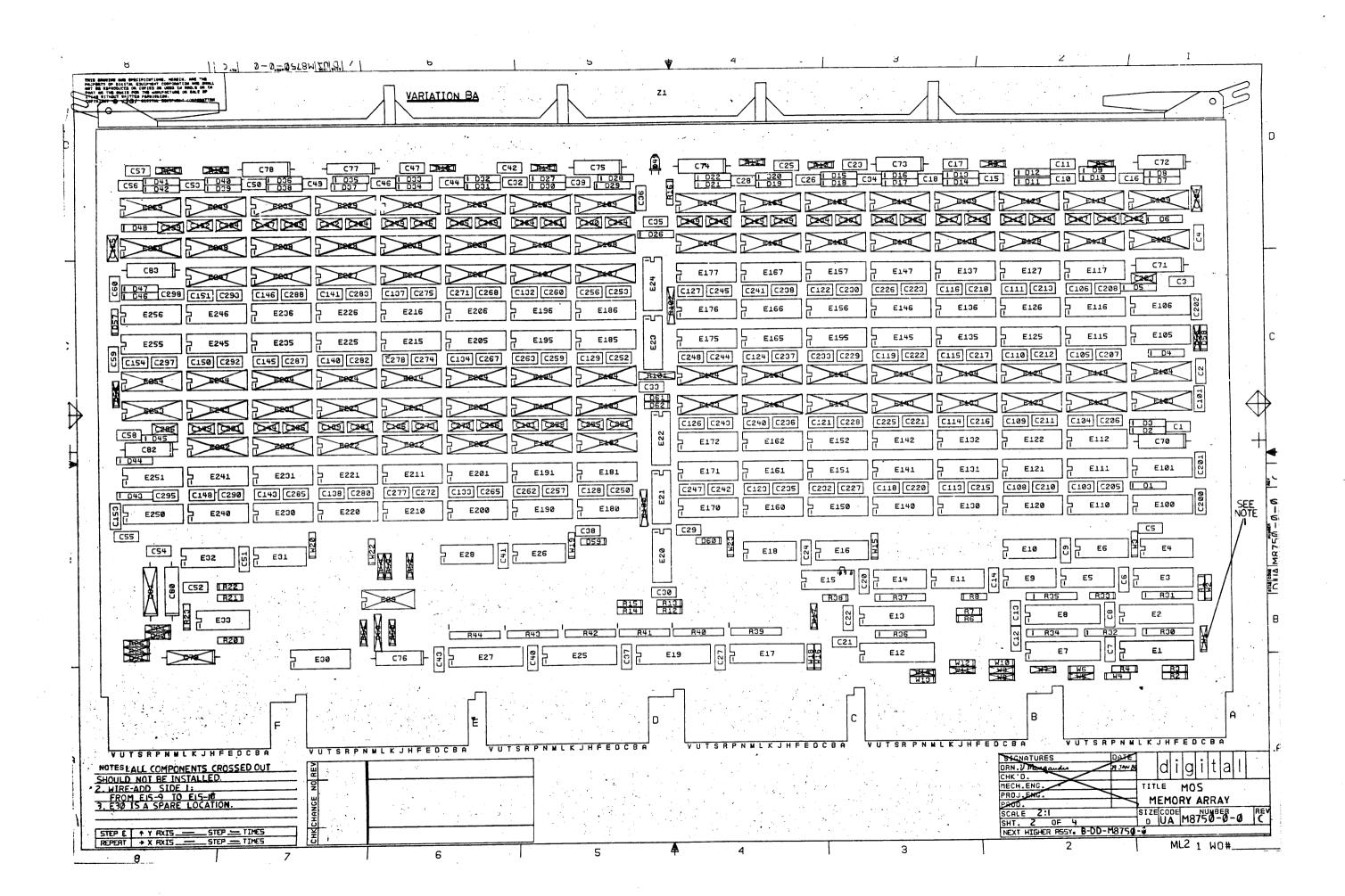
	DIGITAL	EQUIPMEN	T CORPORA	ATION				Q	UAN	TITY /	VAF	RIATIO	ON			NOTES:		
		PARTS LI	ST							1					<u> </u>	1		
MAI DAT	E A.ROCHA 13APR82	CHECKED POLICE DATE 20 APR	SECTIO	N														
ENG DAT	RPMONINE ZO APR 82	PROD COL	ty low ISSUED	SECTION	30-CA	8J-	သု	- C	75									
ITEM	DRAWING NO.				MS730	MS730-	MS730-CC	MS730-CD	MS730-CF									
NO.	DRAWING NO.	PART NO.	DESC	RIPTION	Σ	Σ	Σ	Σ	<u>\$</u>								REF DESIGNATION	
1	B-DD-M8750-0	M8750-CA	1 MB ARRAY MOS MEMO	DRY	1	2	3	4	10									
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"THIS	DRAWING AND SPECIFICATIONS, HEREI	N, ARE THE PROPERTY OF	DIGITAL EQUIPMENT	TITLE 1 MP SAN EQ.	0	_	_			ASSY						SIZE CODE	NUMBER	REV.
AS TH	PRATION AND SHALL NOT BE REPRODUCE BASIS FOR THE MANUFACTURE OR SA BIGHT © DIGITAL EQUIPMENT CO	LE OF ITEMS WITHOUT WI	N WHOLE OR IN PART RITTEN PERMISSION.	1 MB 64K EC	C MEM	ORY A	ARRAY			SHEE)-MS73	OF			B PL	MS730-C-0	Α
				t .						IDME	= 1		UF	1	1 1	NEEDTIAN DADI	S LIST DATA BASE REV	

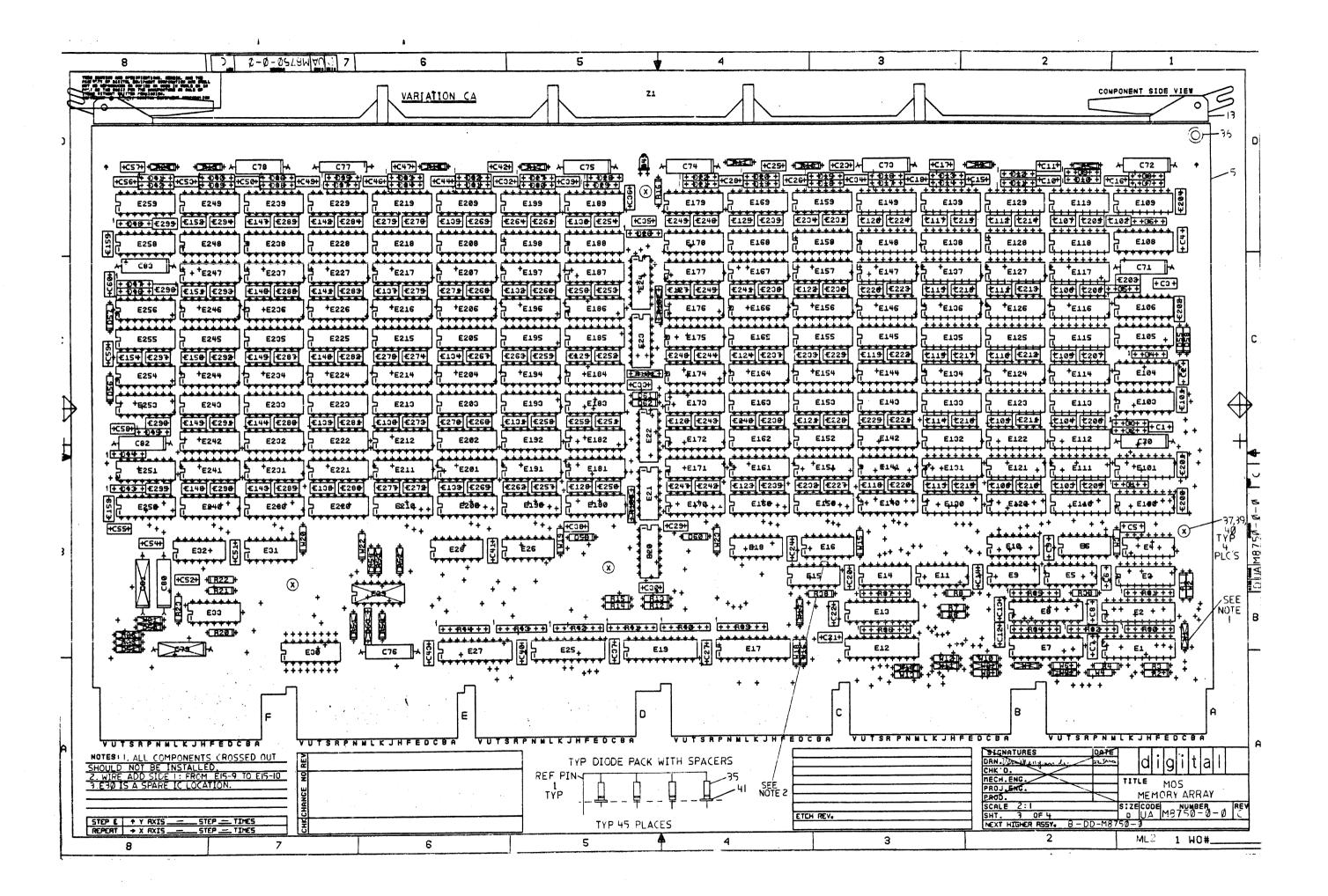
B DD size code NUMBER REV. **REVISIONS** DRAWING NO. OF PART NJ. **DESCRIPTION** AAAA MOS MEMORY ARRAY M8750-00 ABBC MOS MEMORY ARRAY D-UA-M875Ø-Ø-Ø A A A A MOS MEMORY ARRAY 15 D-CS-M875Ø-Ø-1 ABBC PARTS LIST DATA BASE 3 K-PL-M875Ø-BA-DBP AAAA P. C. DESIGN DATA BASE K-PC-M875Ø-0-DBC cccc ETCH BOARD 5Ø137Ø6 AAAA PARTS LIST DATA BASE K-PL-M875Ø-CA-DBP AAAA CIRCUIT SCHEMATIC DATA BASE K-CS-M875Ø-Ø-DBG M8750 MOS STORAGE ARRAY 14 A-SP-M8750-Ø-2 m **NOTES:** 1. Uses Etch of D-MD-5Ø137Ø6-Ø-Ø (M8728) CHGNO. R
INITIAL
MLØØ1
MLØØ2
MLØØ3 21JAN81 TITLE DRN. MANGAUDIS USED ON OPTION/MODEL MOS MEMORY ARRAY "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF CHK'B Bossman 14 MAR81 SIZE CODE DD NUMBER RFV. ENG! Marrayek M875Ø-Ø D ITEMS WITHOUT WRITTEN PERMISSION. 24Jun 81 SHEET 1 OF 1 COPYRIGHT© 1981 DIGITAL EQUIPMENT CORPORATION

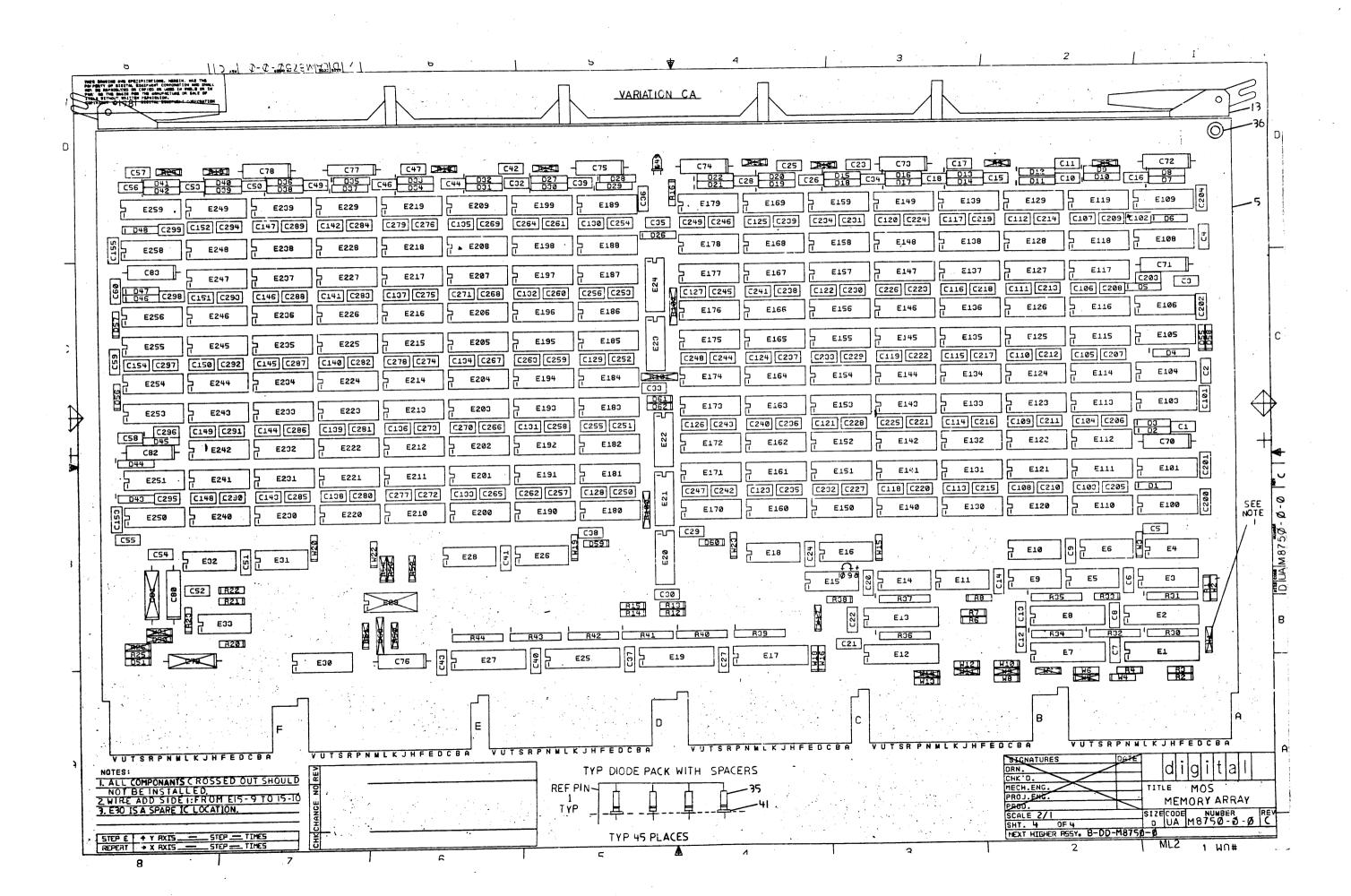
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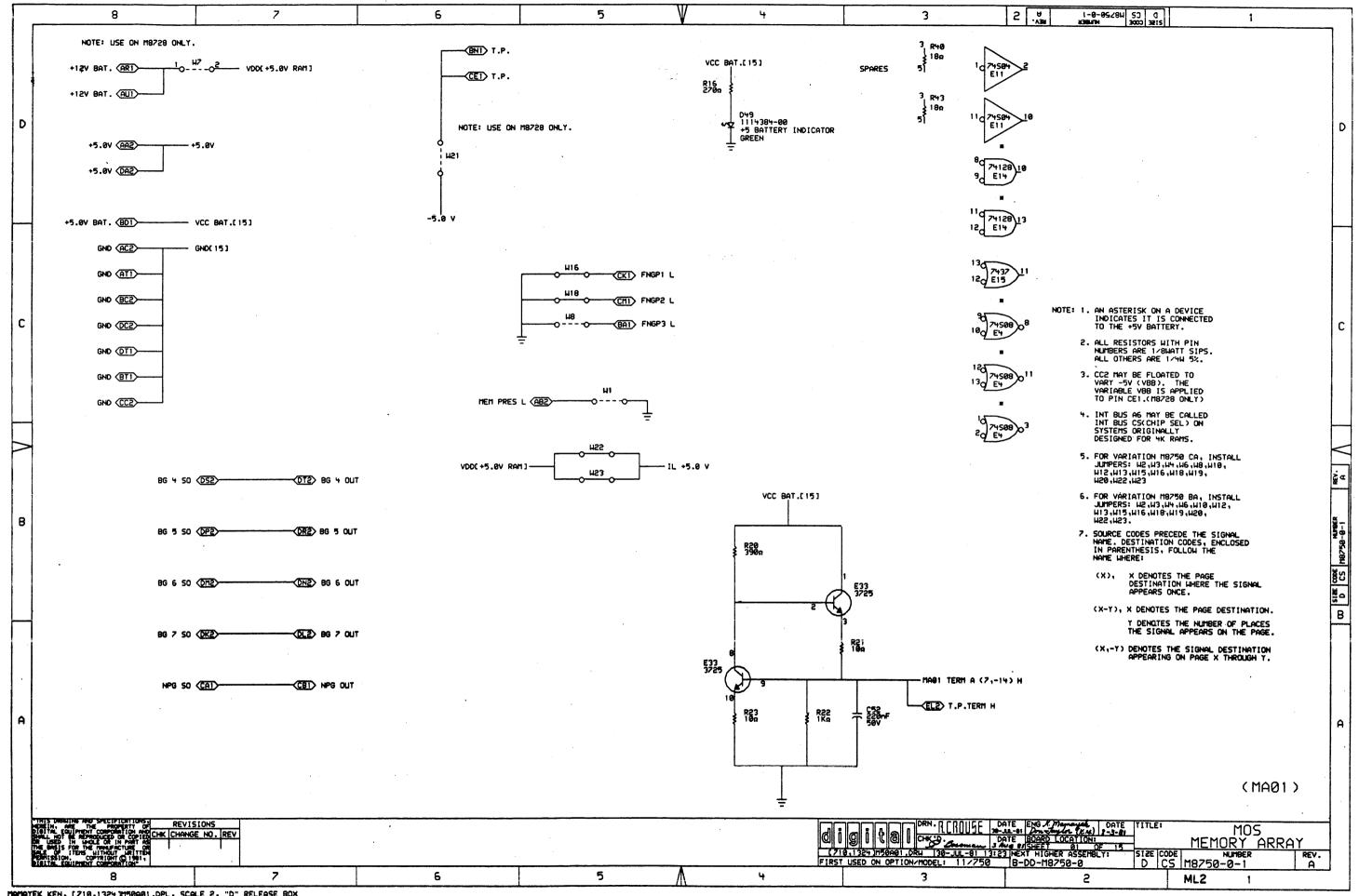
			e.	
AUTOMATED BY PRTLST.3P(44)		PARTS LIST	QTY PER VARIATION	SHEET A1 OF A2
LINE ITEM DOCUMENT NUMBER	PART NUMBER DE	SCRIPTION	CB CD CH REFE	RENCE DESIGNATOR
1 1 D-UA-M8750-0-0 2 2 D-CS-M8750-0-1 3 3 D-MD-5013706-0-0 4 4 B-DD-M8750-0 5 5 6 6 SPARE IC 7 7	5013/06-00 DK	IIT ASSEMBLY RCUIT SCHEMATIC VILL & ETCH DRAWING AWING DIRECTORY VILL+ETCH MEMORY VARE IC VILL MFD 50V +80-20% Z5U CER	REF REF REF REF REF REF REF REF REF 1 1 1 1 E30 1 1 1 E30 47 47 47 C1-C	10,012-016,018,020-024,
8 8	1010274-00 .2	2 MFD 50V +80-20% Z5U CER	CONT C51, 164 164 164 C101	C53-C56,C58-C60 -C155.C11.C17.C25.C26.C42.
9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 23 24 24 25 26 27	1012084-01 1105275-00 1109991-00 ** 1114384-00 LE 1216988-02 HA 1300309-00 39 1300365-00 1301317-00 1 1301972-00 27 1302124-00 1	8 MFD 25V +75-10% AL ELD 672 TR= 15NS PIV= 60V SI	CONT C52, 12 12 12 C70- 8 8 8 D55- 1 1 1 1 D49 1 1 1 1 R20 1 1 1 R21 1 1 R21 1 R21 1 R31- 1 R33- 1 1 1 R33- 1 1 1 R33- 1 1 1 R33- 1 1 1 R33- 1 1 1 R33- 1 1 R33- 1 1 R33- 1 1 R33- 1 1 R33- 1 R	R38 4.86-R8.R12-R15 R32 R34-R37 R39-R44
21 21 22 22 23 23 24 24 25 25 26 26 27 27	1513265-00 1910091-00 DE 1910532-00 1910534-00 1911676-00 1912068-00 1912388-00	3725 QUAD CORE DRIVER C 7437 AND GATE-QUAD ZIN.BU 74500 NAND GATE-QUAD ZIN 74504 INVERTER GATE-HEX II 745139 DECODER-DUAL TWO-INP 74128 DRIVER,LINE.GUAD.50 74502 NOR GATE-QUAD ZIN.PO	13 13 13 E33 2 2 2 E15, 1 1 1 E31 1 1 1 E31 1 1 1 E31 2 2 E E5,E	E20
REVISION HISTORY BASI	C PART NO: M8750	DRN: R. CROUSE DATE	E: 13-JAN-81	DIGITAL
INITIAL A SECT	ION A OF A ION. VARIATION INDEX 1 CB, CD, CH	· · · · · · · · · · · · · · · · · · ·	E: 4-FEB-31 MCS ME	PARTS LIST
		DES.ENG: K. MAMAYEK DATA	E: 13-JAN-81	
[E		RESP.ENG.: K. MAMAYEK DATI		DOCUMENT NUMBER E! NUMBER ! REV
		ASSEMBLY NUMBER: !TOP	E: 13-JAN-81 K PL DOCUMENT NUMBER:	M8750-CA-DBP A FILE NAME: EDIT #
MELLER BROUTING AND COPATE	CATIONS HEREIN, ARE	,	ENT CORPORATION AND SH SALE OF ITEMS WITHOUT	ARTITEM PERMISSION.
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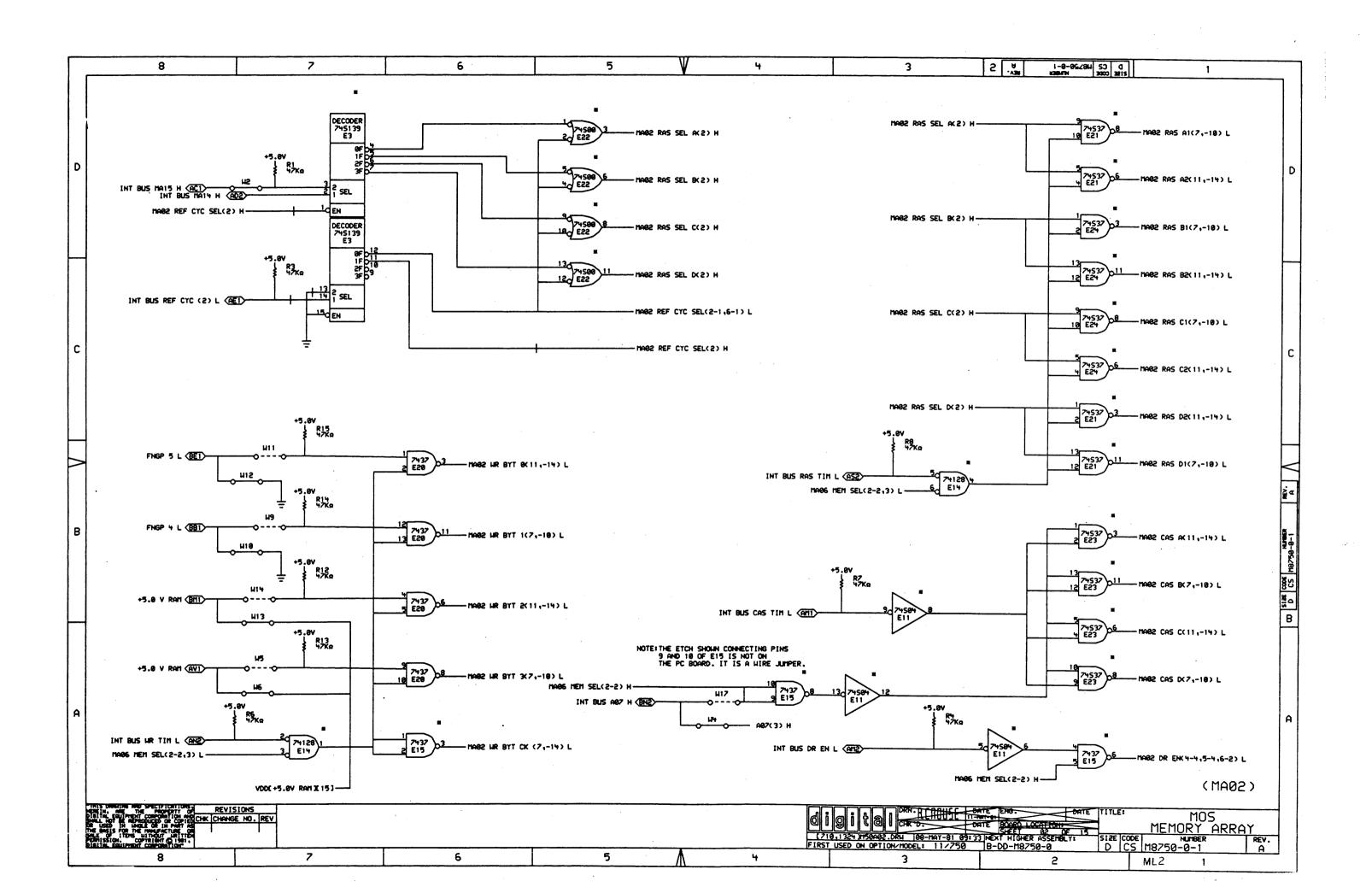
AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PARTS LIST OTY PER VARIATION CB CD CH REFERENCE DESIGNATOR
28 28 29 29 30 30	1912389-00 1912746-00 DEC 74537 AND GATE-QUAD 2IN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31 31 32 32 33 33	2113825-01
34 34 35 35 36 36 37 37 38 38	2118470-01
38 38 39 39 40 40 41 41	9009185-00 JUMPER, WIRE, INSULATED, BLACK B 15 15 15 W2-W4, W6, W8, W10, W12, W13, W15, W16, CONT W18-W20, W22, W23 9009233-04 SCREW, NYLON, SLTD BINDER HD, 4- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

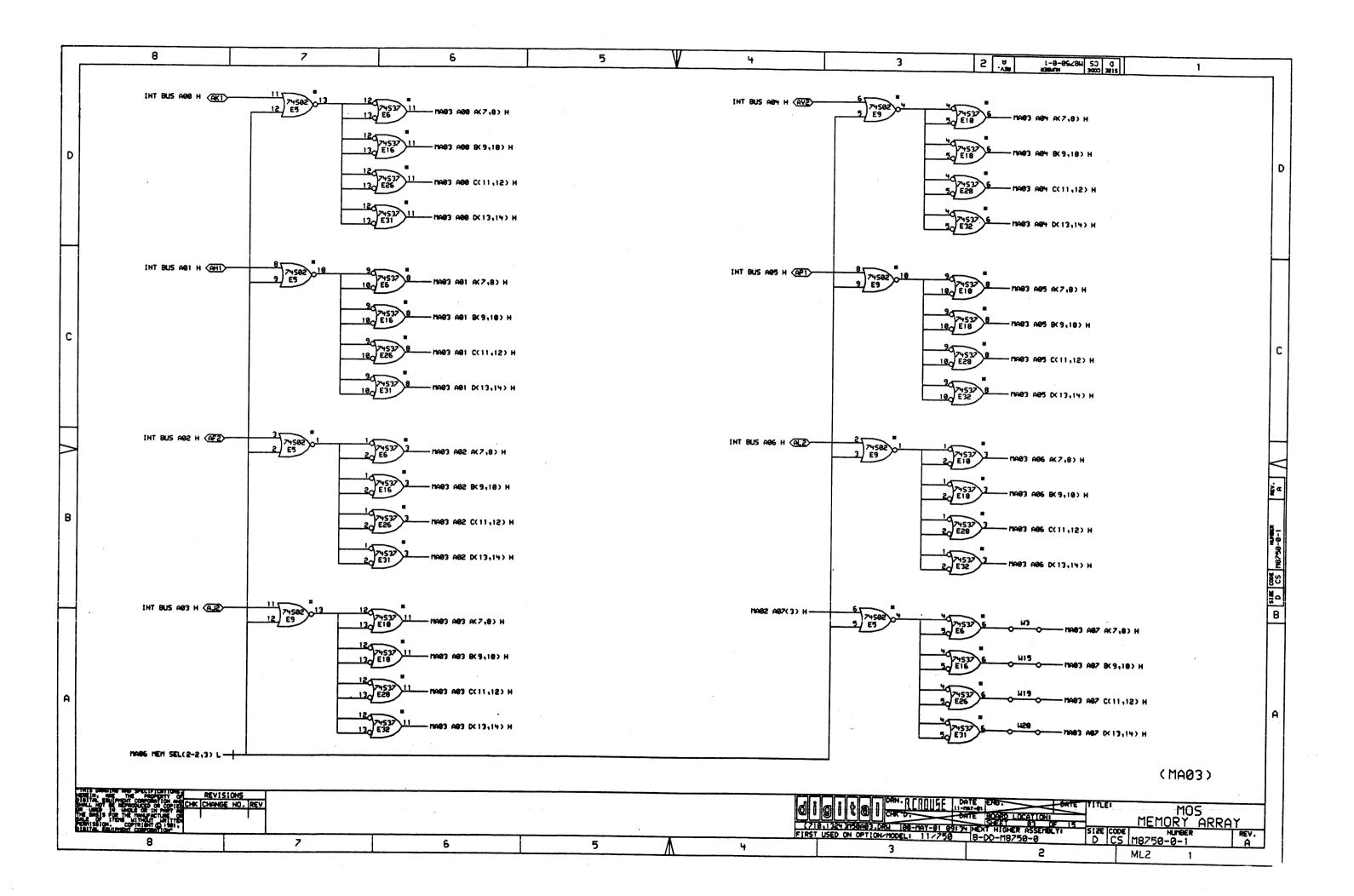
42 NOTE: M8750-CA IS THE PRIMARY VARIATION 256K X 39 BITS SYSTEM (NOT A MODULE TYPE).
43 NOTE: M8750-CB IS A MODULE TYPE USING HITACHI 64K MOS DEVICES.
44 NOTE: M8750-CD IS A MODULE TYPE USING FUJITSU 64K MOS DEVICES.
45 NOTE: M8750-CH IS A MODULE TYPE USING NEC 64K MOS DEVICES.

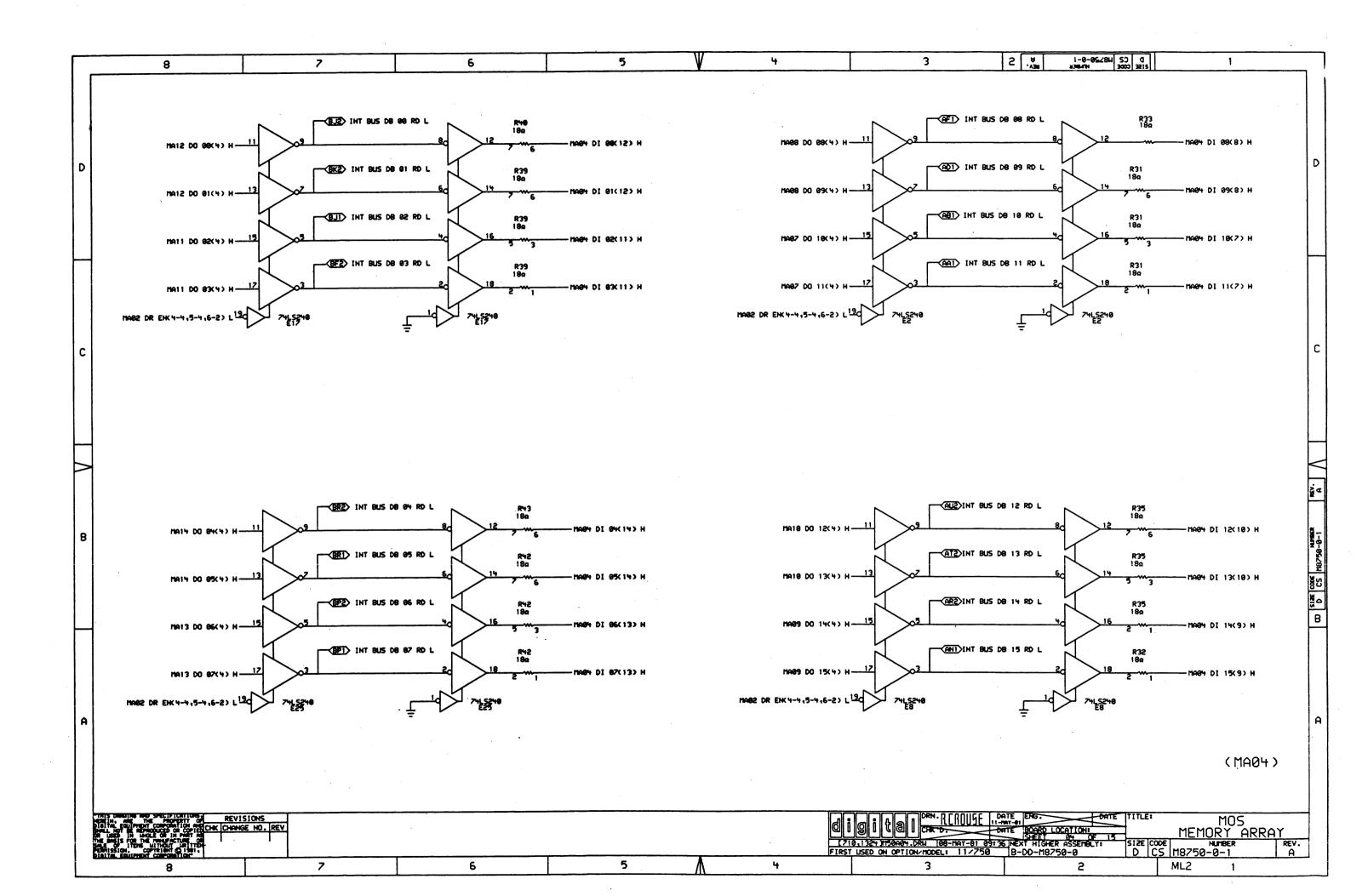
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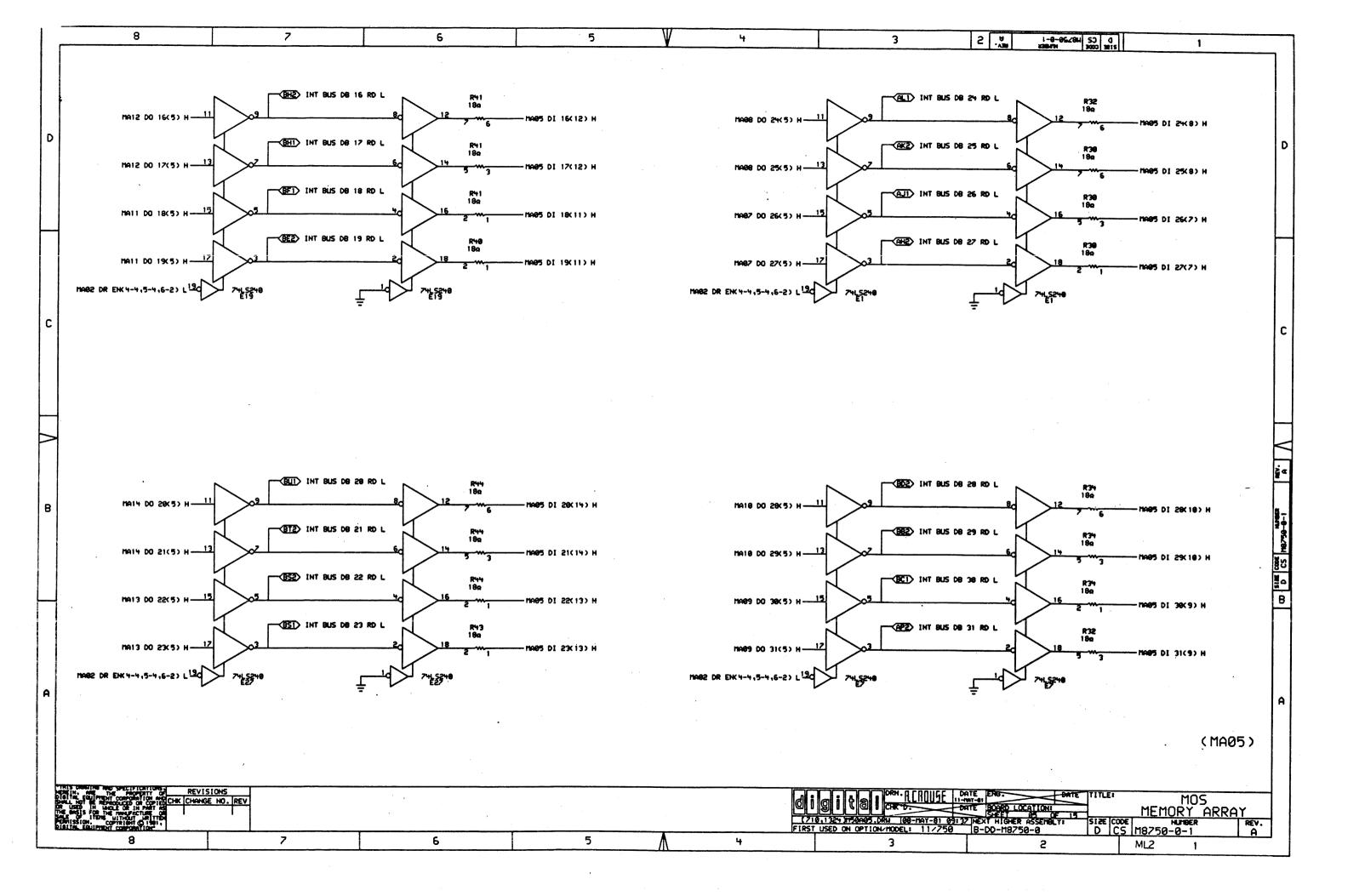
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SECTION A OF A	K PL M8750-CA-DBP A

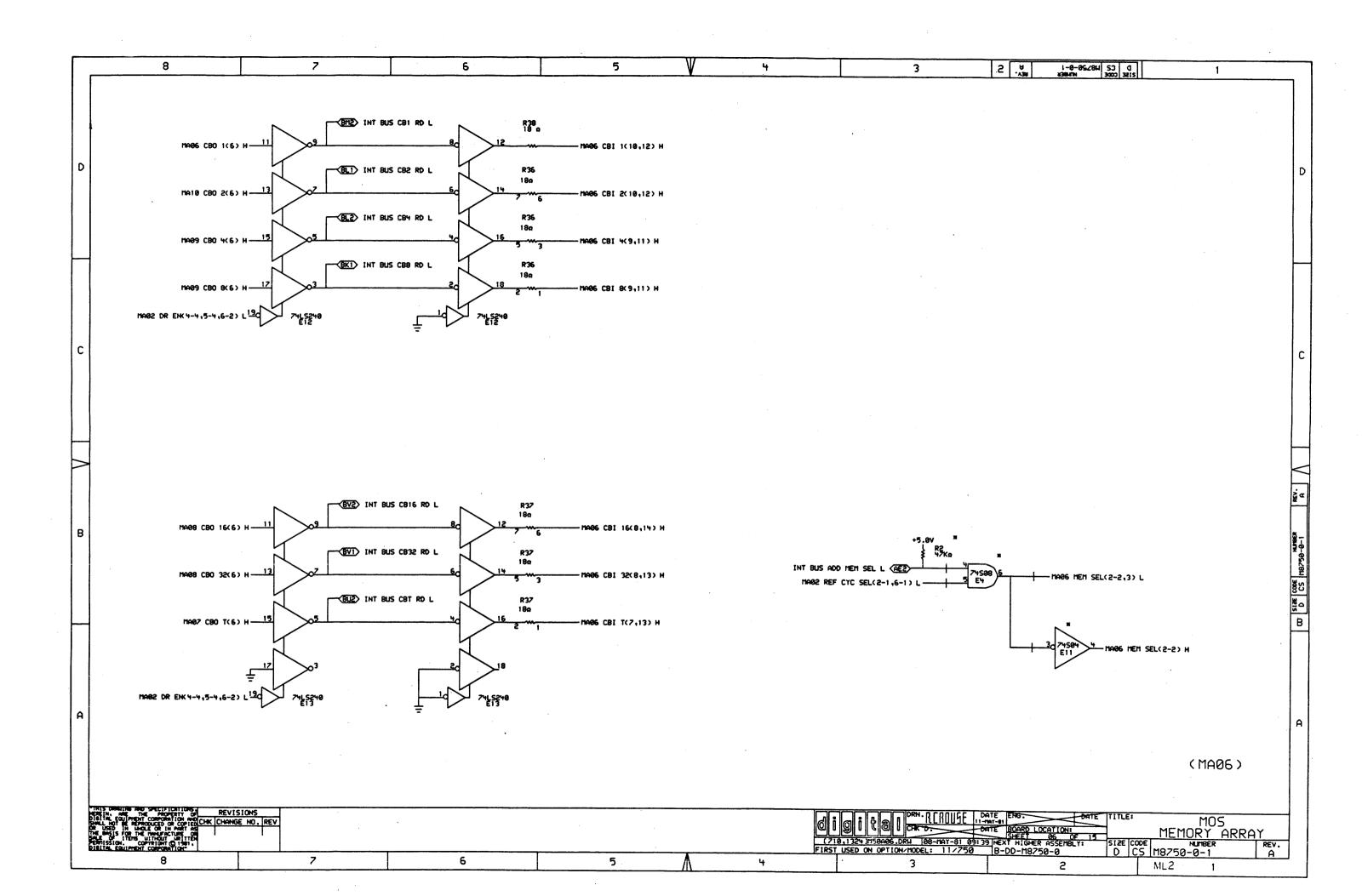


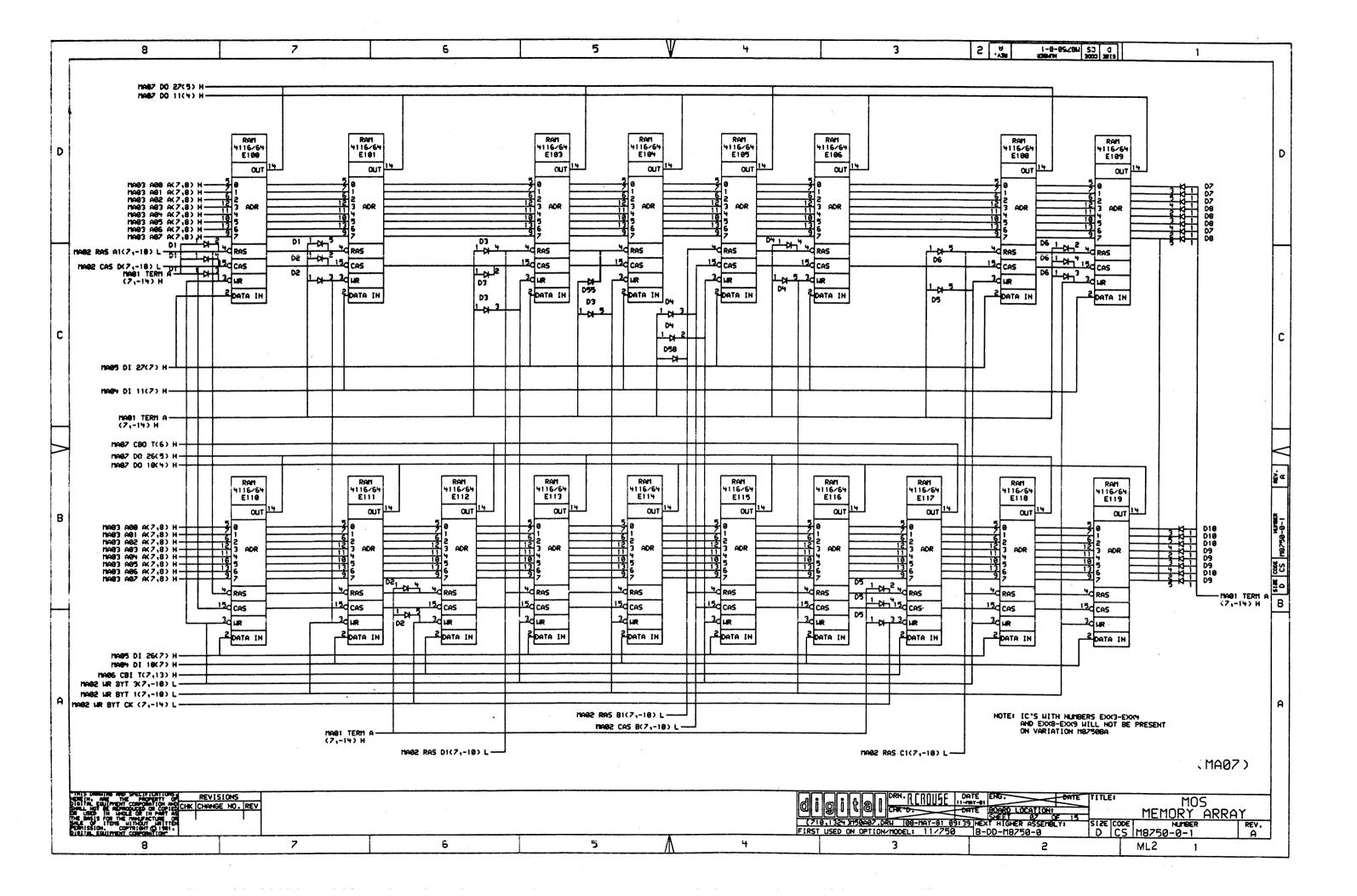


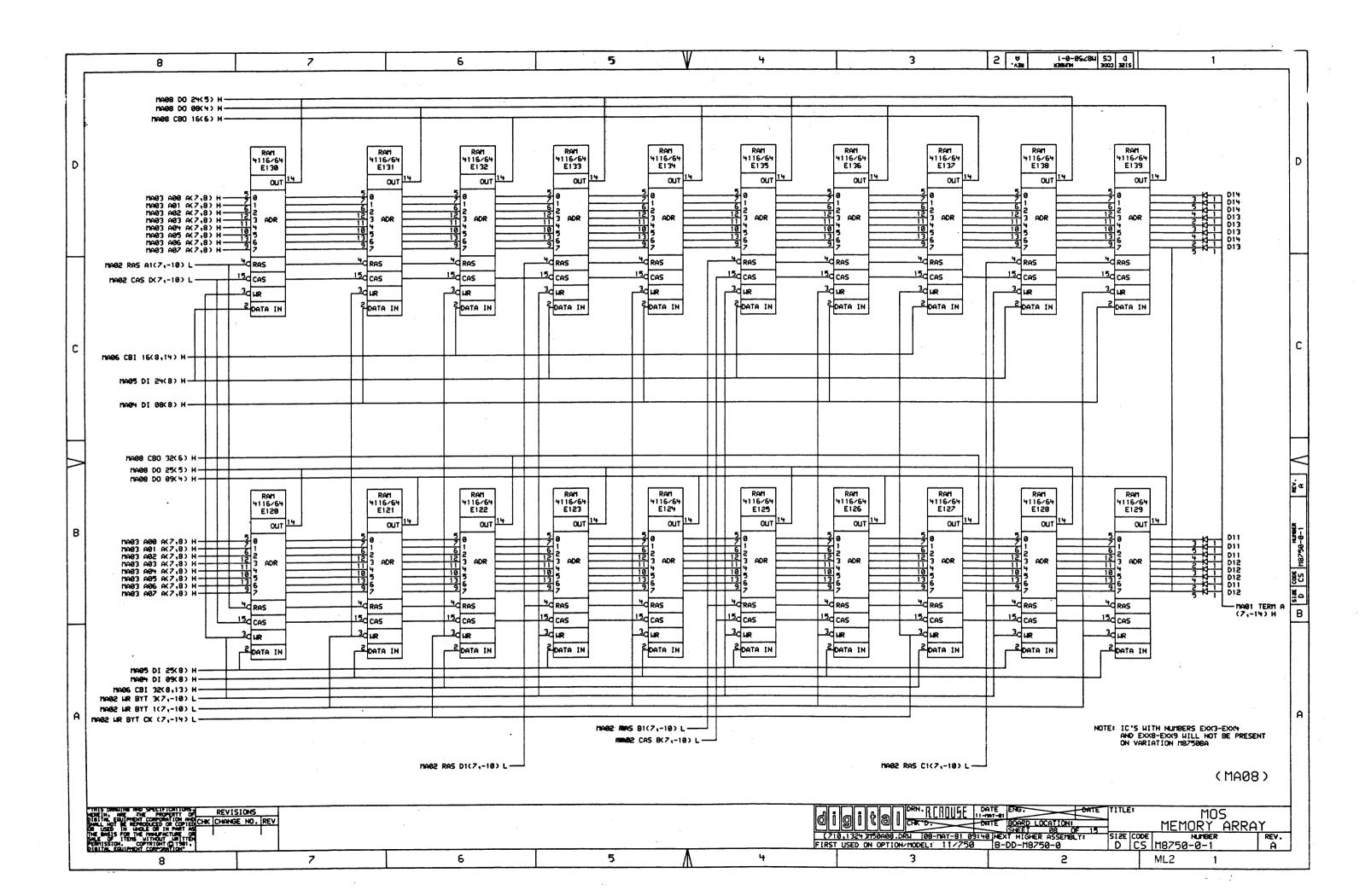


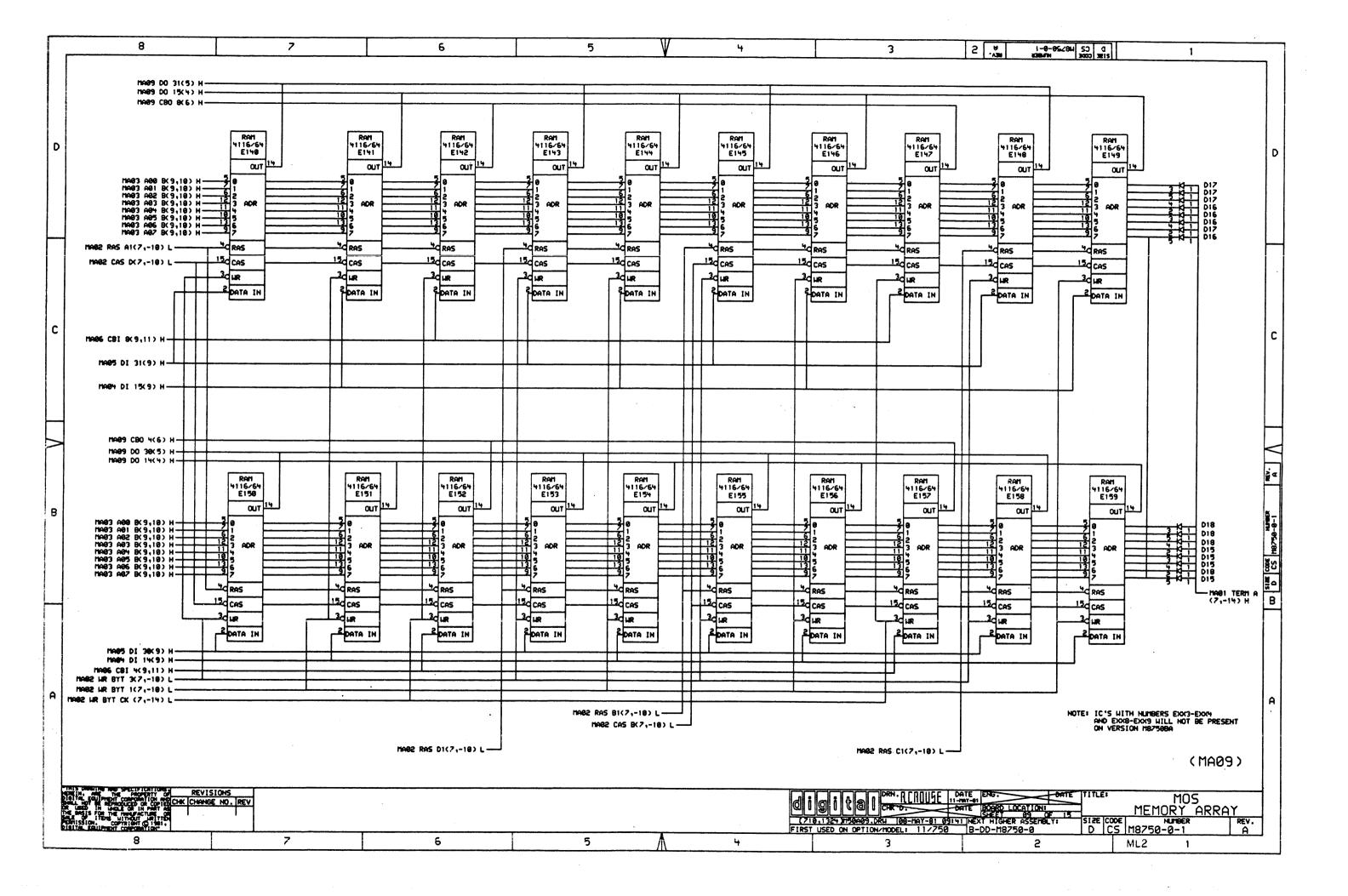


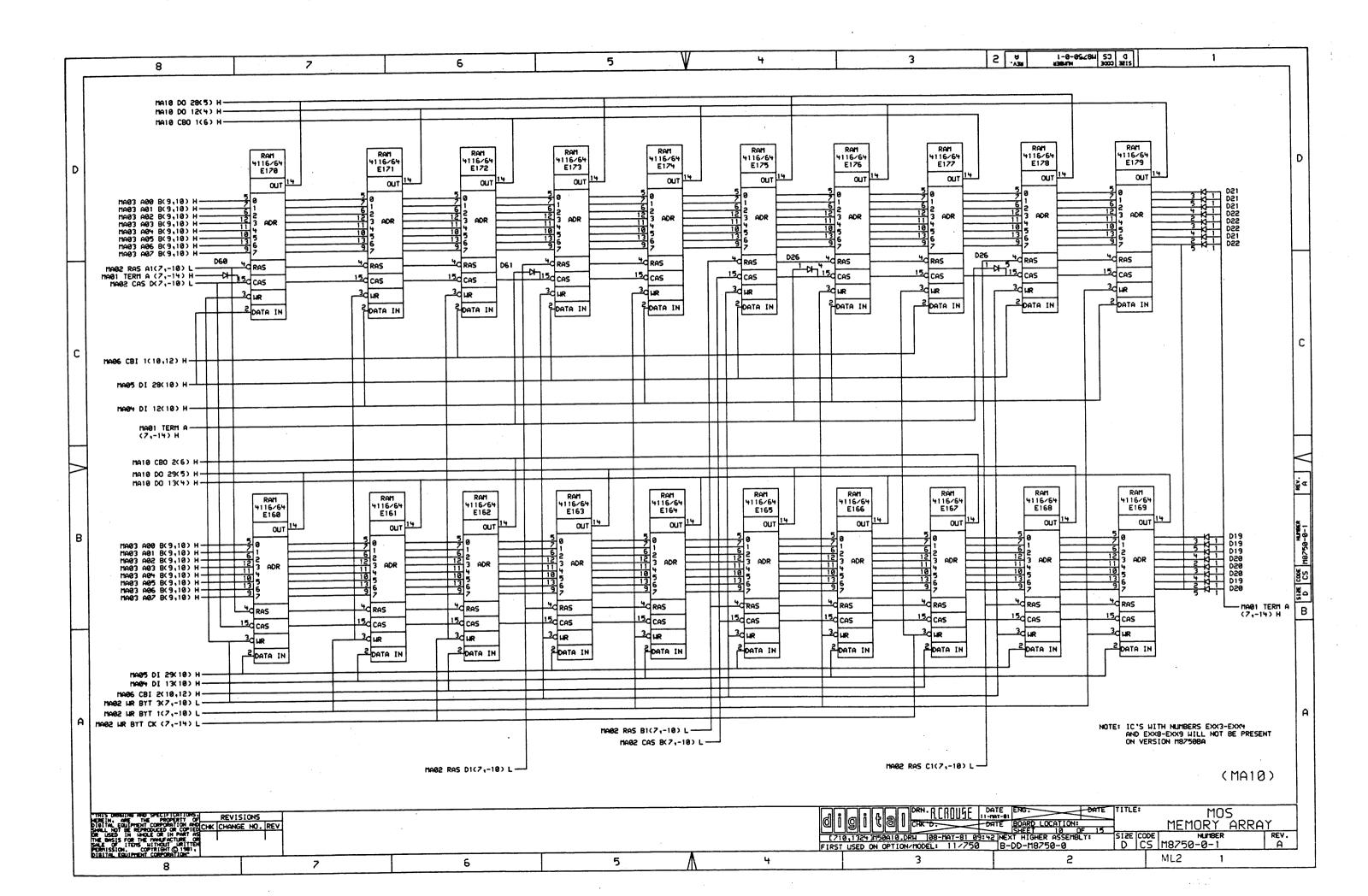


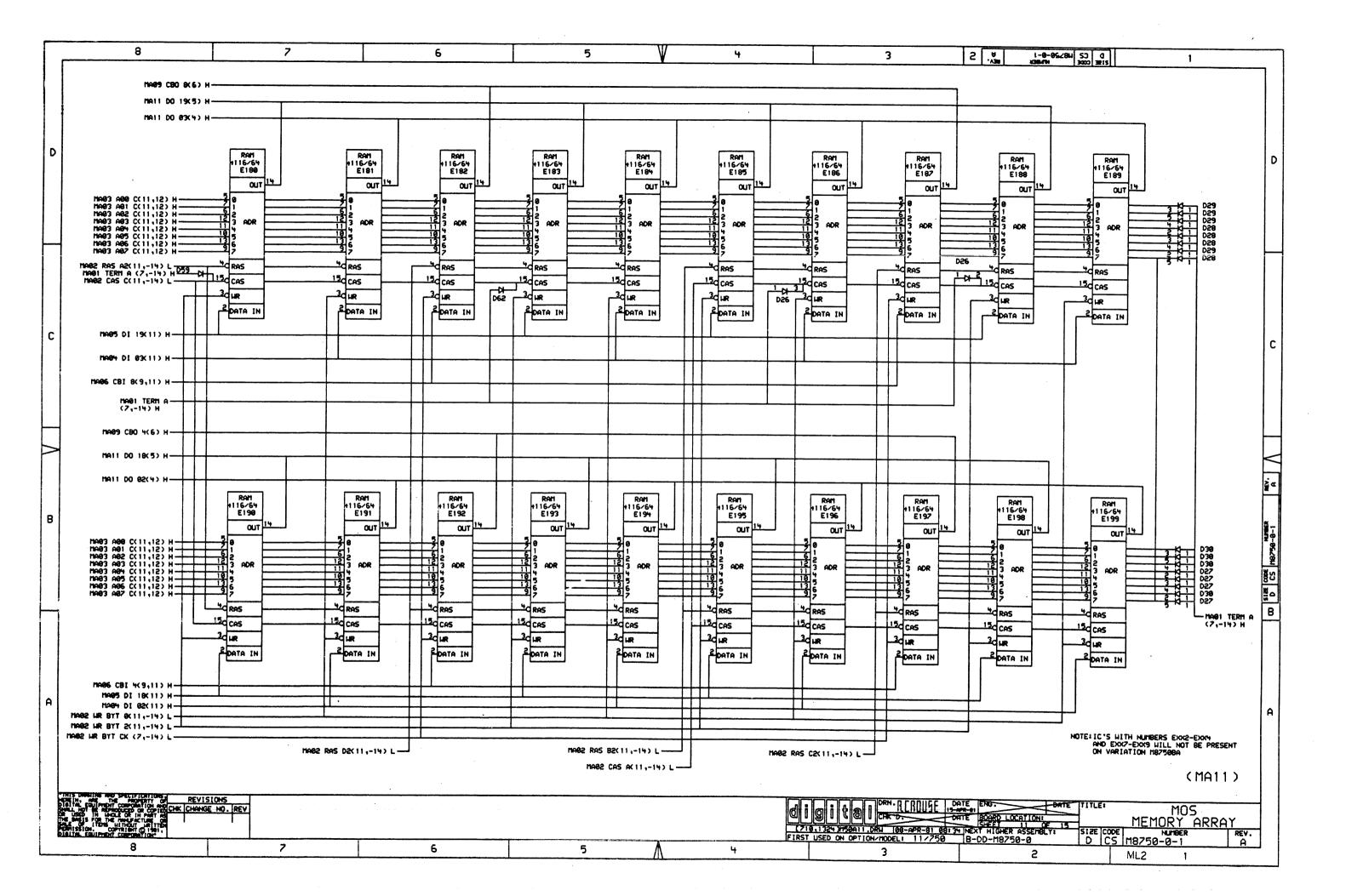


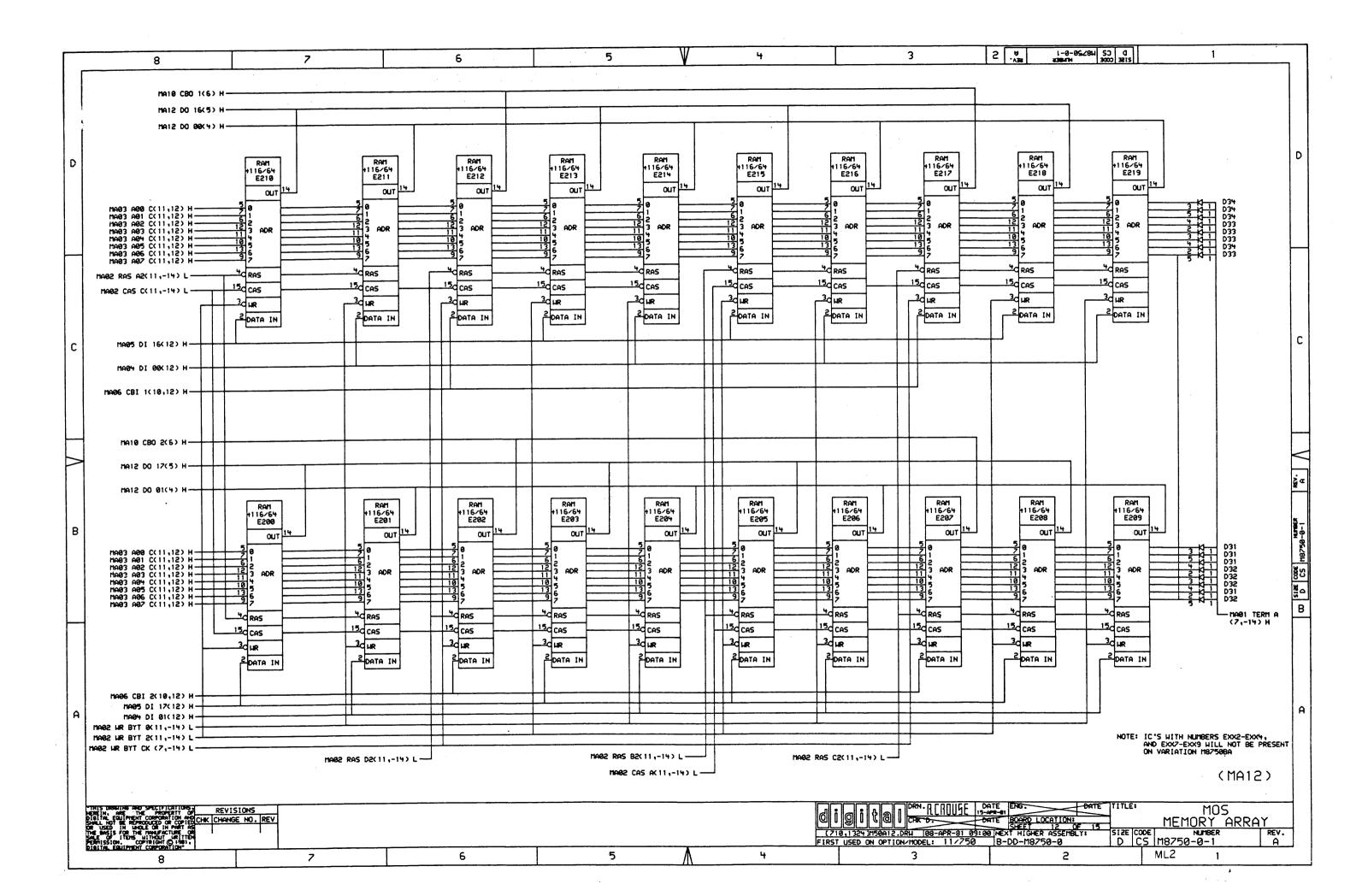


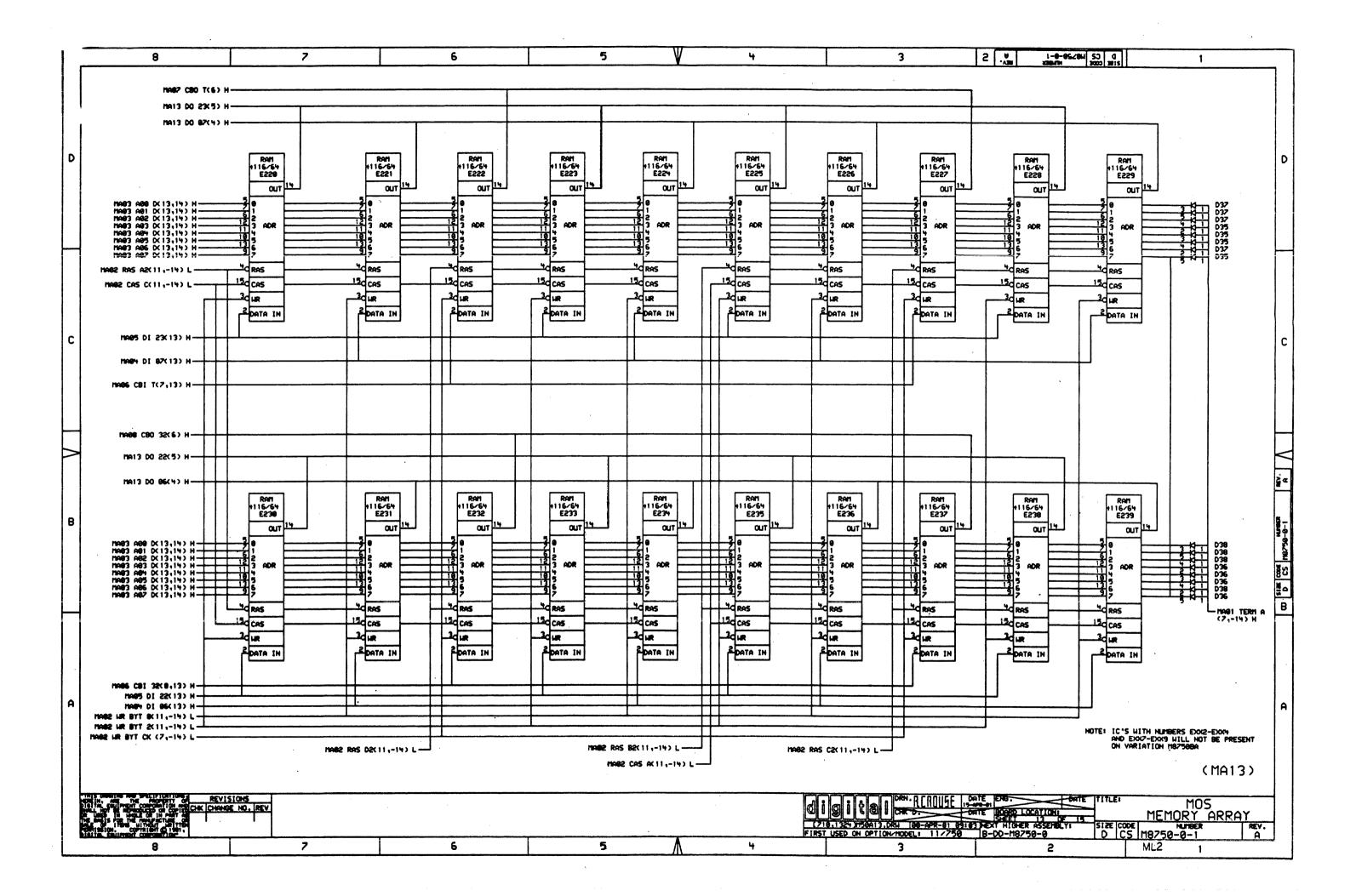


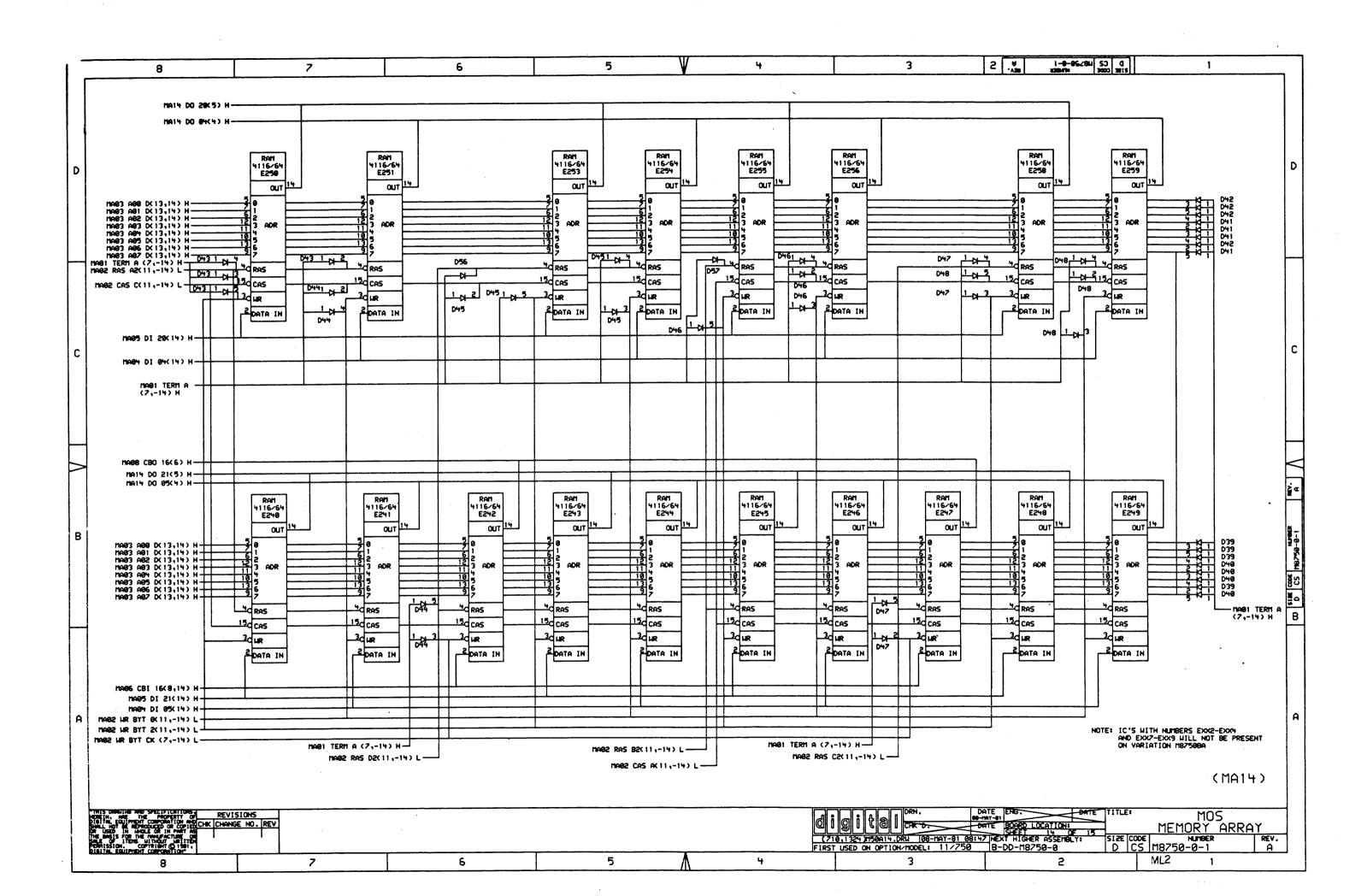


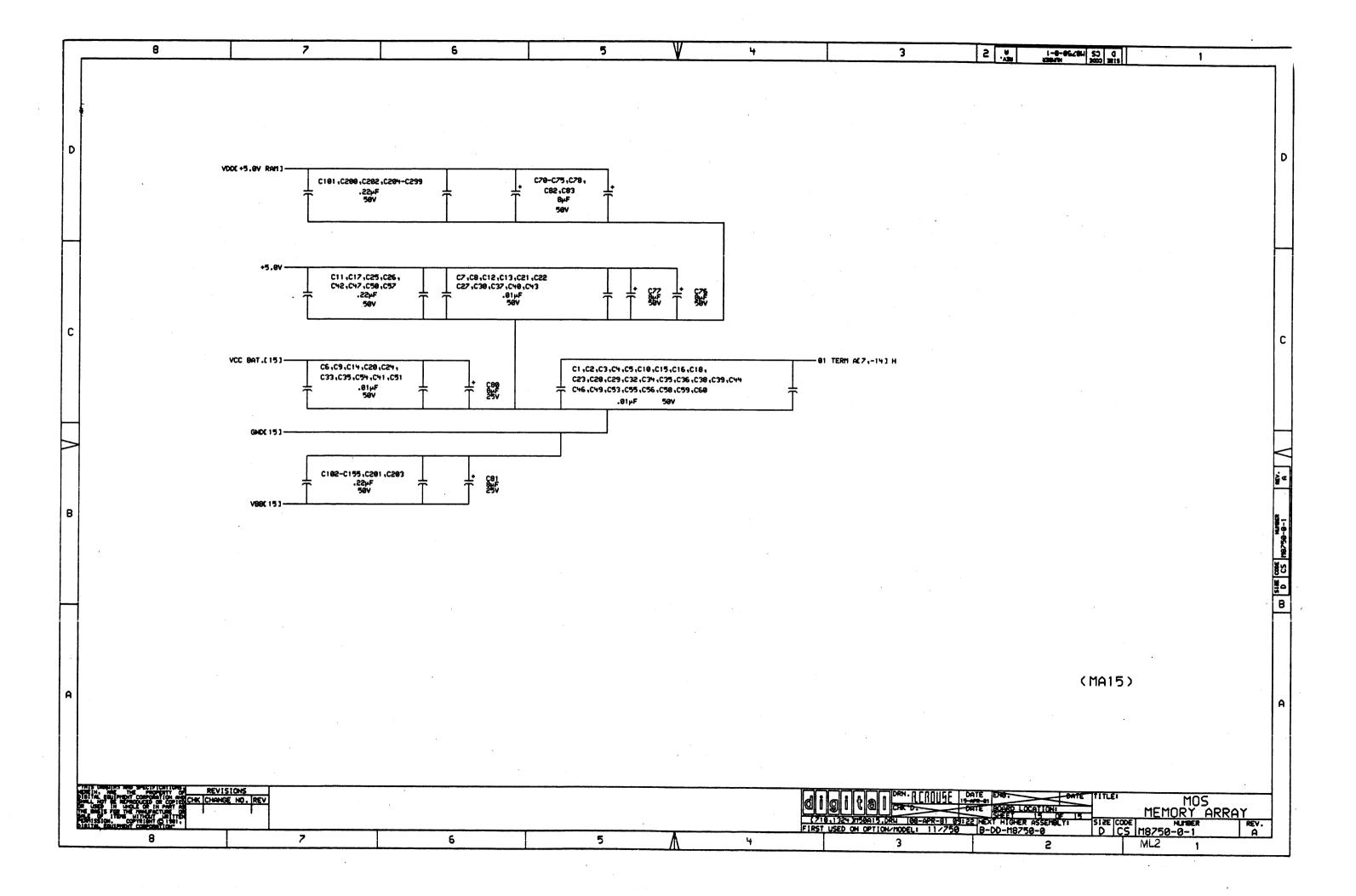












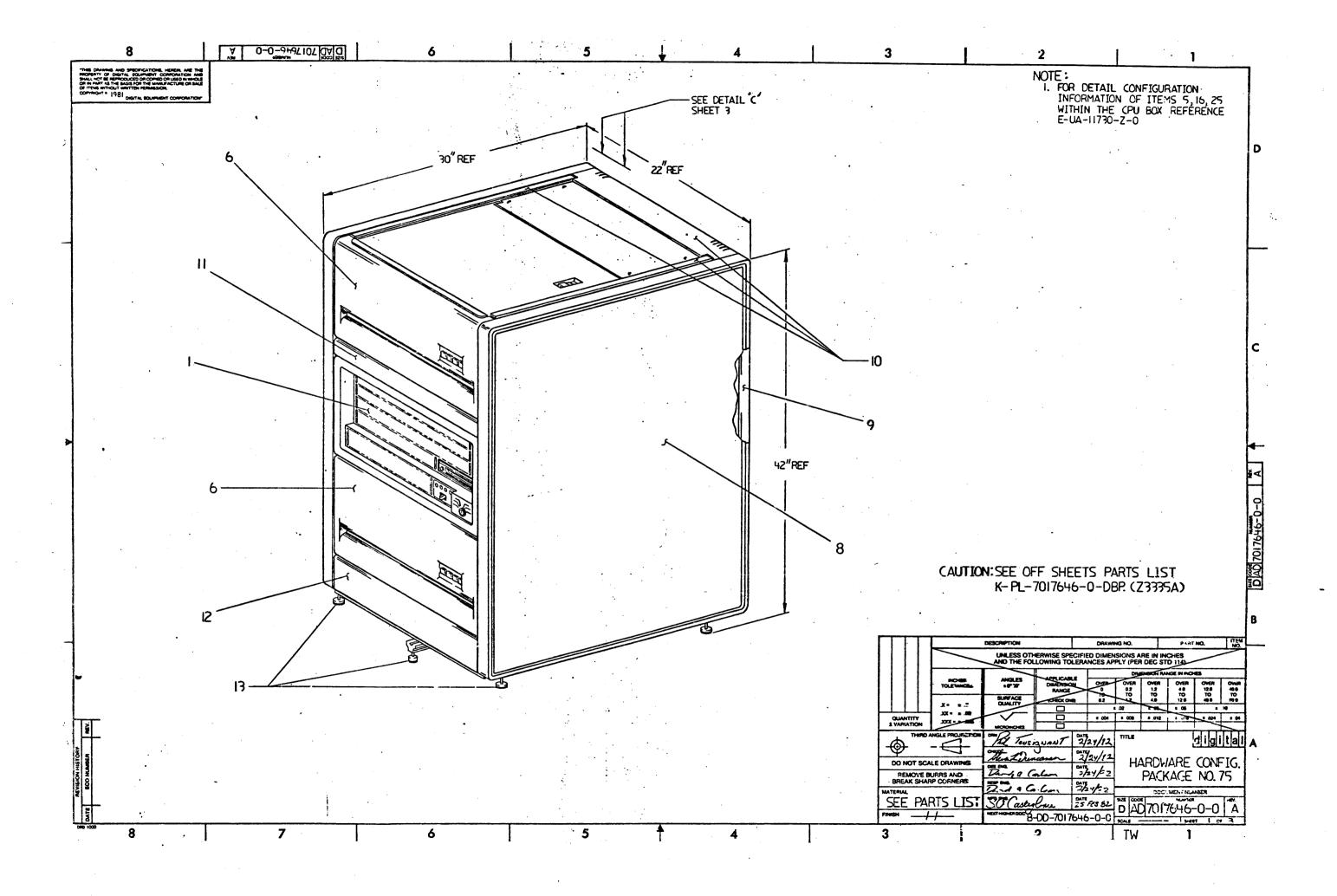
THE MATERIAL HEREIN IS FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE. DIGITAL EQUIPMENT CORPORATION I LASSUMES NO RESPONSIBILITY FOR ANY ERRORS WHICH MAY APPEAR HEREIN." **** FIELD MAINTENANCE PRINT SET **** TABLE OF CONTENTS IB-TC-7017646-0-0 HARDWARE CONF. PKG #75 B-DD-7017646-0 HARDWARE CONF. PKG #75 DRAWING DIRECTORY K-PL-7017646-0-DBP HARDWARE CONF. PKG #75 PARTS LIST UNIT VARIATIONS ID-AD-7017646-0-0 HARDWARE CONF. PKG #75 ASSY DRAWING E-UA-BC21Z-0-0 I/O CABLE ASSEMBLY - UNIT ASSEMBLY 7017646-00 K-PL-BC21Z-0-D3P I/O CABLE ASSEMBLY - PARTS LIST ID-UA-BC22D-0-0 NULL MODEM CABLE - UNIT ASSEMBLY 7017646-01 K-PL-BC22D-0-DBP HULL MODEM CABLE - PARTS LIST LD-UA-BCOGR-O-O I/O CABLE - UNIT ASSEMBLY ID-IA-7012293-0-0 TERMINATOR ASSEMBLY - INSEPARABLE ASSEMBLY ID-UA-H026-0-0 RL CABLE RETRACTOR ASSY - UNIT ASSY FIELD MAINTENANCE IK-PL-H025-0-DBP RL CABLE RETRACTOR ASSY - PARTS LIST PRINT SET IC-IA-7008288-0-0 CABLE ASSEMBLY - INSEPARABLE ASSEMBLY CONFIGURATION PKG #75 CABINET ACCESSORY KIT - DRAWING DIRECTORY B-DD-H9544-H E-UA-H9544-H-0 CABINET ACCESSORY KIT - UNIT ASSEMBLY DIGITAL EQUIPMENT IK-PL-H9544-H-D3P CABINET ACCESSORY KIT - PARTS LIST CORPORATION MP01277 USED ON OPTION/MODEL DRII. DATE TR. J. RILEY | 4-13-82 CHK'D DATE SVCXMMA IS. DUNCANSON: 4-13-82 PROJ. ENG. DATE D. CARLSON 4-13-82 FIELD SERV. DATE H. HUNTER 4-13-82 SHEET 1 OF 1 digital TITLE: "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE FIELD MAINT. PRINT SET (CONFIGURATION PKG 475) MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT 0 1932 DIGITAL EQUIPMENT CORPORATION." SIZE | CODE | NUMBER B | TC | 7017646-0-1 REV

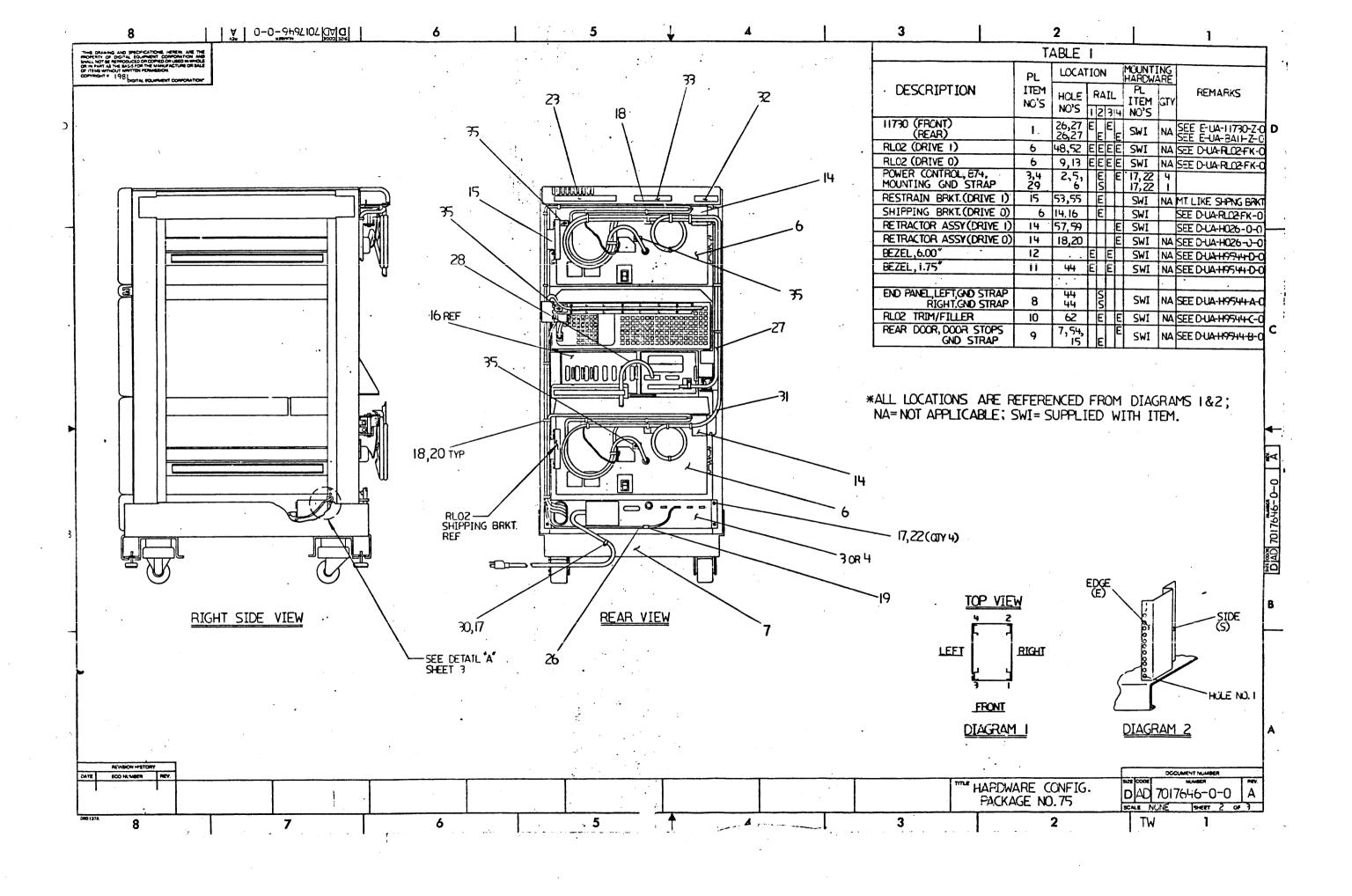
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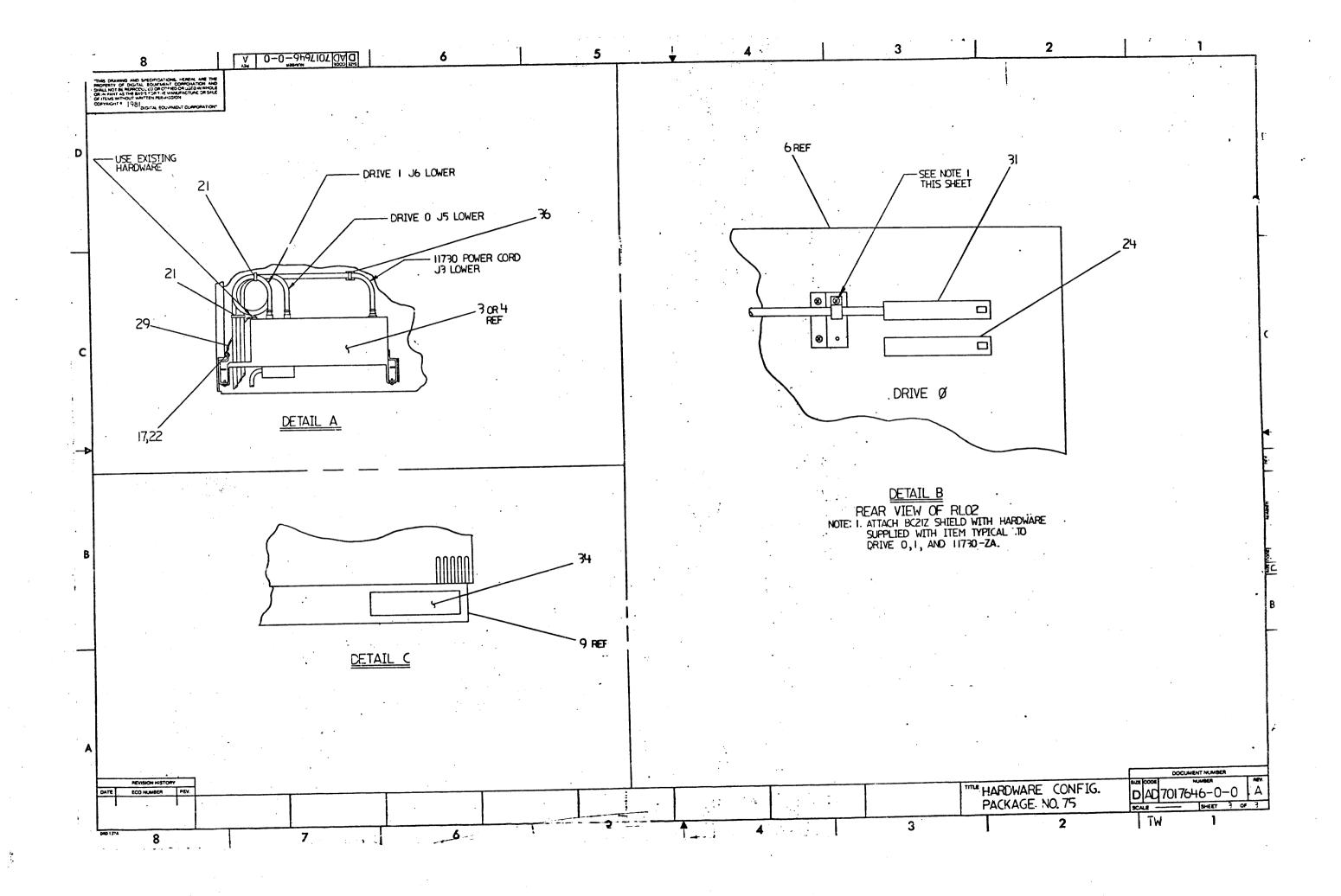
	i	DRAWING NUMBER	DESCRIPTION			DRAWING NUMBER	DESCRIPTION	
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	1	D-AD-7017646-0-0.	HARDWARE CONFIGURATION PKG. NO.75	E/M	9	B-DD-H9544-C	H9544-C TRIM KIT	
•		K-PL-7017645-0-DBP	HARDWARE CONFIG. PKG. NO. 75 P/L	E/M			-	_
		A-PS-3700436-0-0	FKG CAB H9642/H9645/H9646		10	B-DD-H9544-D	H9544-D BEZEL ASSY	
	-	C-MD-7419856-0-0	BRKT., RLO1 SHIPPING BLACK	М		1		
		A-PS-3618384-0-0	LABEL, CAUTION STABILIZER FOOT	М	11	B-DD-H9544-H	CABINET ACCESSORY KIT	E/M
	<u> </u>	A-PS-1213756-0-0	GROUND STRAP	E/H	<u> </u>		-	
	<u> </u>	A-PS-3617880-0-0	LABEL, FCC CLASS A PROCESSOR	М	12	B-DD-H026-0	RL RETRACTOR ASSY	
		A-PS-3617674-0-0	LABEL, SERIAL & POWER W/UL & CSA	<u> </u>	-			
;	-	A-PS-3618053-0-0	LABEL, CAUTION STABILITY 11V23-WA		13	B-DD-DMF32-A	DHF32 OPTION	E/M
	ļ	A-PS-3618057-0-0	LABEL, CAUT. SERV. INTERLOCK 11V	·				-
			-		i.	D-IA-7012293-0-0	TERMINATOR ASSY	E/M
	2	B-DD-11730-Z	11730-Z-UHIT ASSY	E/M		A-DC-7416678-0-0	TERMINATOR LOGO	E/M
			-					-
	3	B-DD-874-0	874 POWER CONTROL	E/M	15	D-UA-BCOGR-O-O	BCOGR I/O CABLE	— <u>E</u>
					-	A-PS-3616989-0-0	CABLE ID LABEL	— —
	4	B-DD-M8338-0	IDC	E/H	<u> </u>	A-PS-3616073-0-0	IDENTIFICATION LABEL	— M
	<u> </u>		-		-			i
•	5	B-DD-RL02-F	RLO2 DISK DRIVE	E/M	16	C-IA-7003288-0-0	CABLE ASSY	E
	<u></u>		-		-		-	<u> </u>
	6	B-DD-H9542-F	H9542-F 40 INCH FRAME ASSY	<u>M</u>	17	E-UA-BC21Z-0-0	I/O CABLE ASSY	E
			-		_	K-PL-BC21Z-O-DBP	I/O CABLE ASSY PARTS LIST	_ <u>E</u>
	7	 B-DD-H9544-A	END. PANEL ASSY	-ж-	-	A-PS-3616073-0-0	IDENTIFICATION LABEL	— —
			-		-			[
	8	B-DD-H9544-B	H9544-B REAR DOOR		18	B-DD-8C22D-0	CABLE, NULL MODEM	- E
	<u> </u>		-		-			
	_		-		19	A-PL-7012938-0-0	UNIT SELECT PLUG KIT	— M —
•	TYP	E: E = ELECTRICA M = MECHANICA	AL	HARD	IARE	CONFIGURATION SHEET	2 OF 2 SIZE CODE NUMBER B DD 7017646-0	REV A
	<u> </u>	E/M = ELECTRO/	MECHANICAL	<u> </u>				

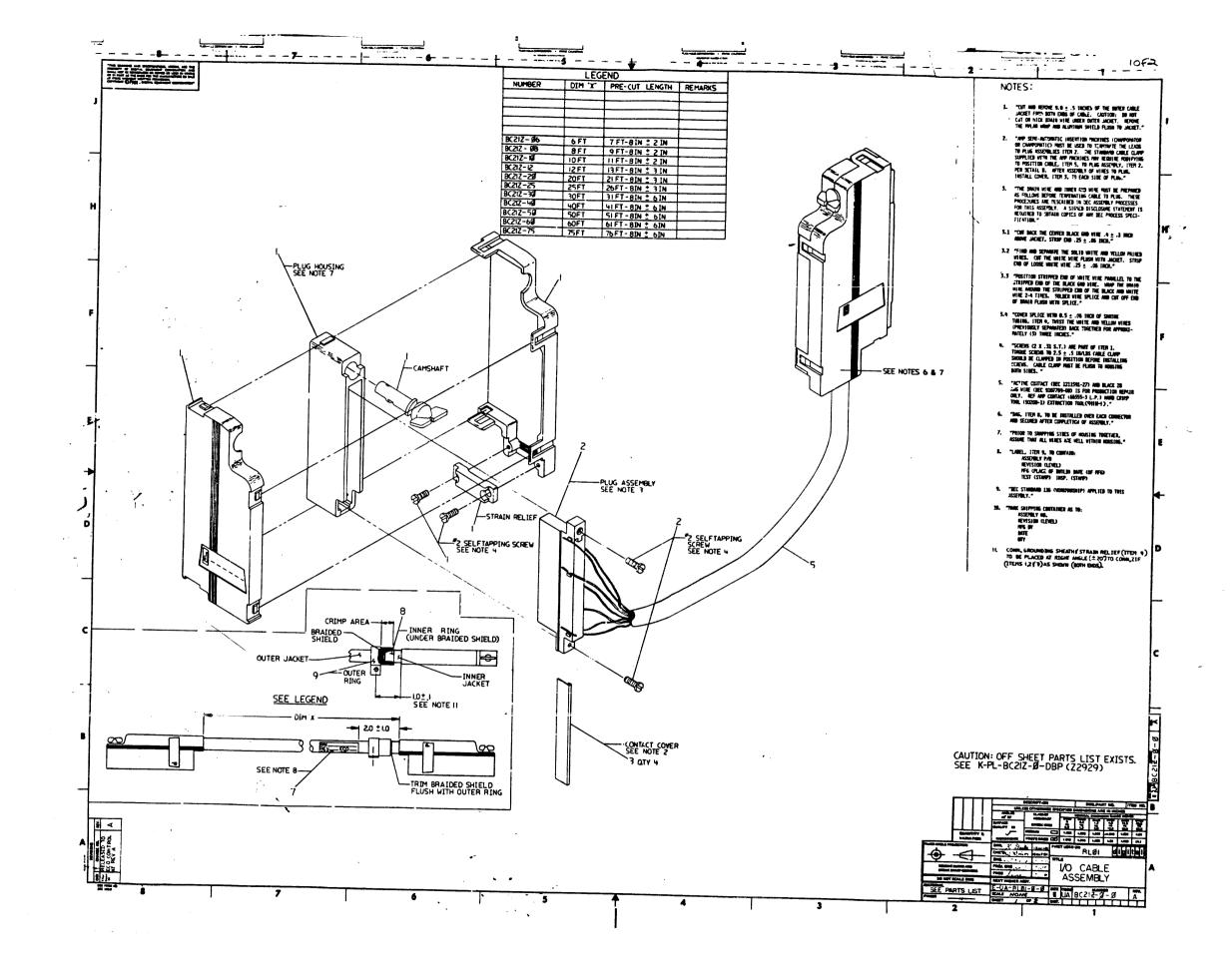
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	E-UA-11730	7 ^	11730-ZA	KA730-A, BA11-ZA	-2 TUS9-MS730-	·CΔ= 1 1	•					
	n-PS-37004		3700436-08	CAB H9642 REPLA				•				
•	E-UA-874-0		00874-C	120V 16A FILTER							•	
. –	E-UA-874-0		00874-B	220-240V 12A FI								
-	D-UA-M8388		M8388-00	RB730 IDC (INTE	GRATED DISK CO	NTR 1:1				•		
	E-UA-RL02-		ORLO2-FK	RL02-F + RL02K-		2 2		-	•			
	E-UA-H9542		H9542-FB	40" 10.5" TOP L								
8 8	D-UA-H9544		H9544-AA	40 END PANEL, GR								
•	D-UA-H9544		H9544-BK	EXTENDED DEPTH					• ,			
•	D-UA-H9544	•	H9544-CA	RL01/RL02 TRIM			-					
	D-UA-H9544		H9544-DA	1.75" BEZEL ASS		1 1			<u>.</u>			
	D-UA-H9544		H9544-DB	6"X19" FRONT CO					•			
	E-UA-H9544		H9544-HA	KIT OF 4 LEVELE CABLE RETRACTOR			1					
	D-UA-H026- C-MD-74198		0H026-00 7419856-01	BRKT, RLO1 SHIPP			• • •					_
	D-UA-DMF32		DMF32-AA	8 EIA ASYNC SLU		ILLE 1 1		•				
7 17	D-0H-0111-02		9009700-00	SCREW, TRUS, PHIL))					
818-			9007032-00					- 			·	
9 19			9009636-00	CLAMP, CABLE, F		1 1						
0 20			9007867-00	MOUNT, PUSH, CAB	LE TIE	1 I	•					
21	-A-PS-12189	12-0-0-	1218912-01	CLIP, CAPLE 3/4		22	·					
2 22			9007783-00	RETAINER, U-NUT		5 5	j					
	A-PS-36183		3618384-01	LABEL, CAUTION S		1 1	•					
			7012293-00	TERMINATOR ASSE	MBLY				-			
	D-UA-BCOSR		BCO6R-8F	I/O CABLE	• .	1 1	•					
	C-IA-70082		7008288-06	CABLE ASSY SHIELDED I/O CA	. DIE . DI 04 /DI 07 -	. DAG 1	· 					
	E-UA-BC21Z		BC21Z-06 BC22D-25	25FT CABLE, ASYN			•	:				
	B-UA-BC22I A-PS-12137		1213756-12			ii						
30 - 30			9007083-00	- CLAMP, CABLE, SCR	EW MTD 3/8	11					<u></u>	
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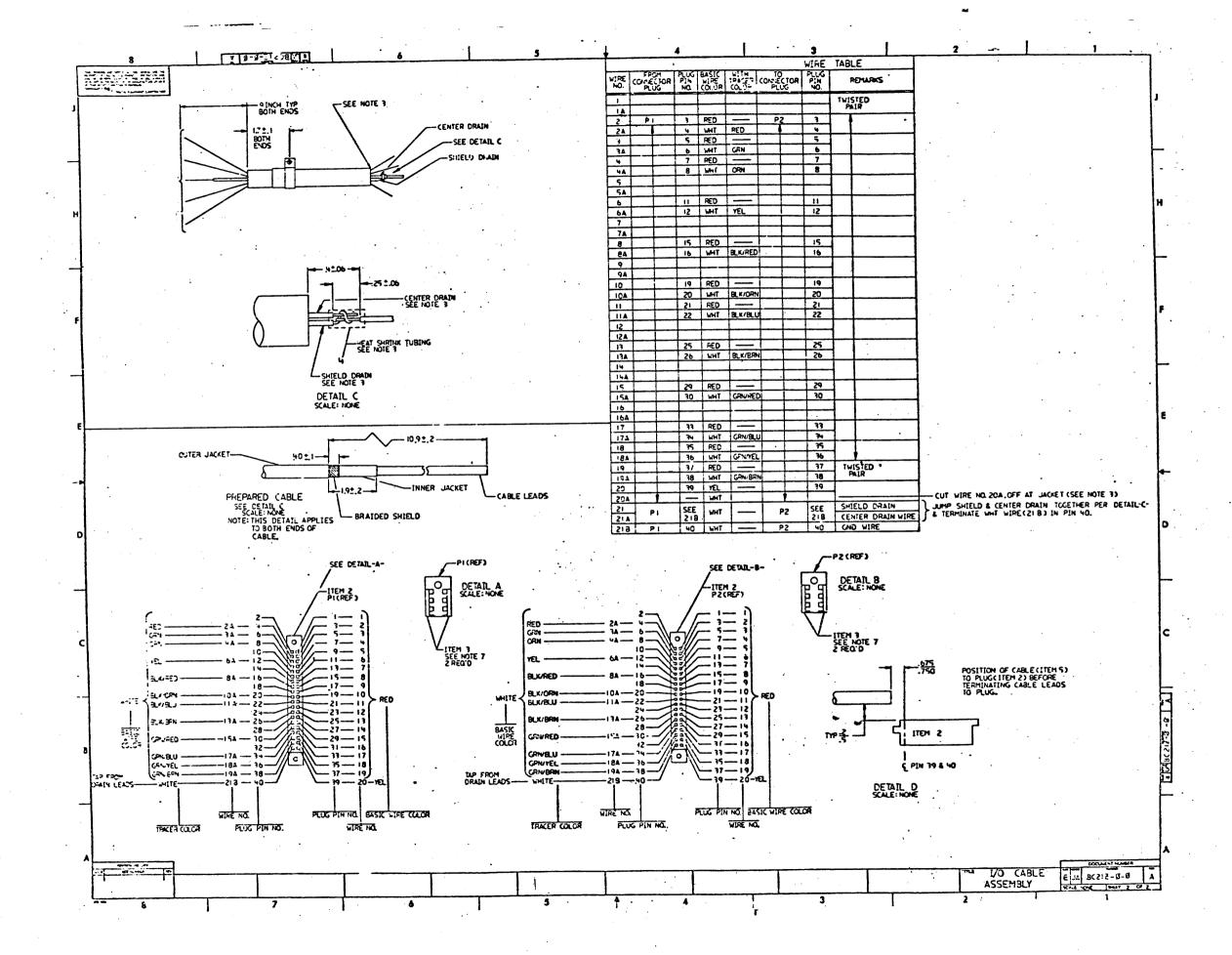
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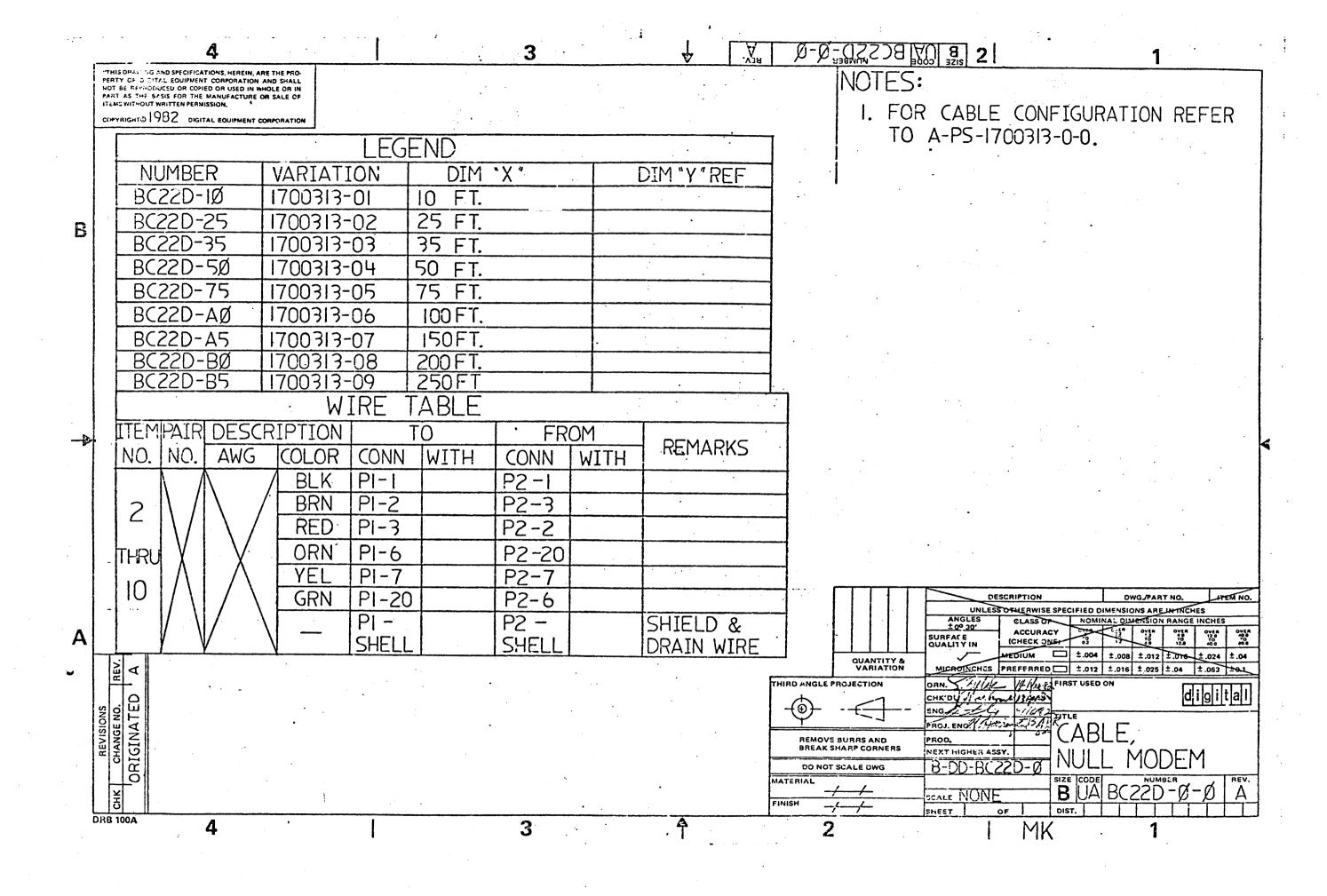




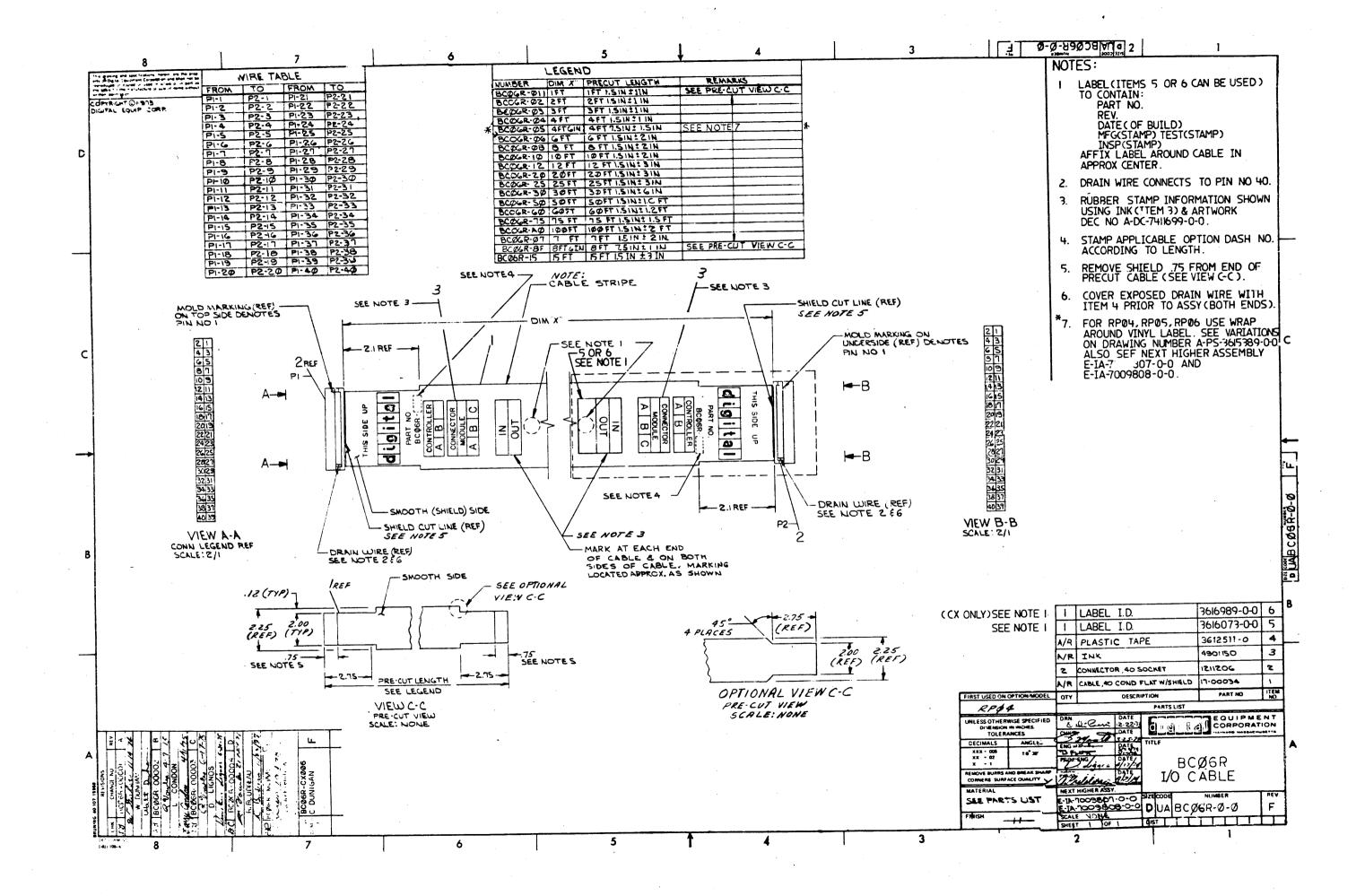
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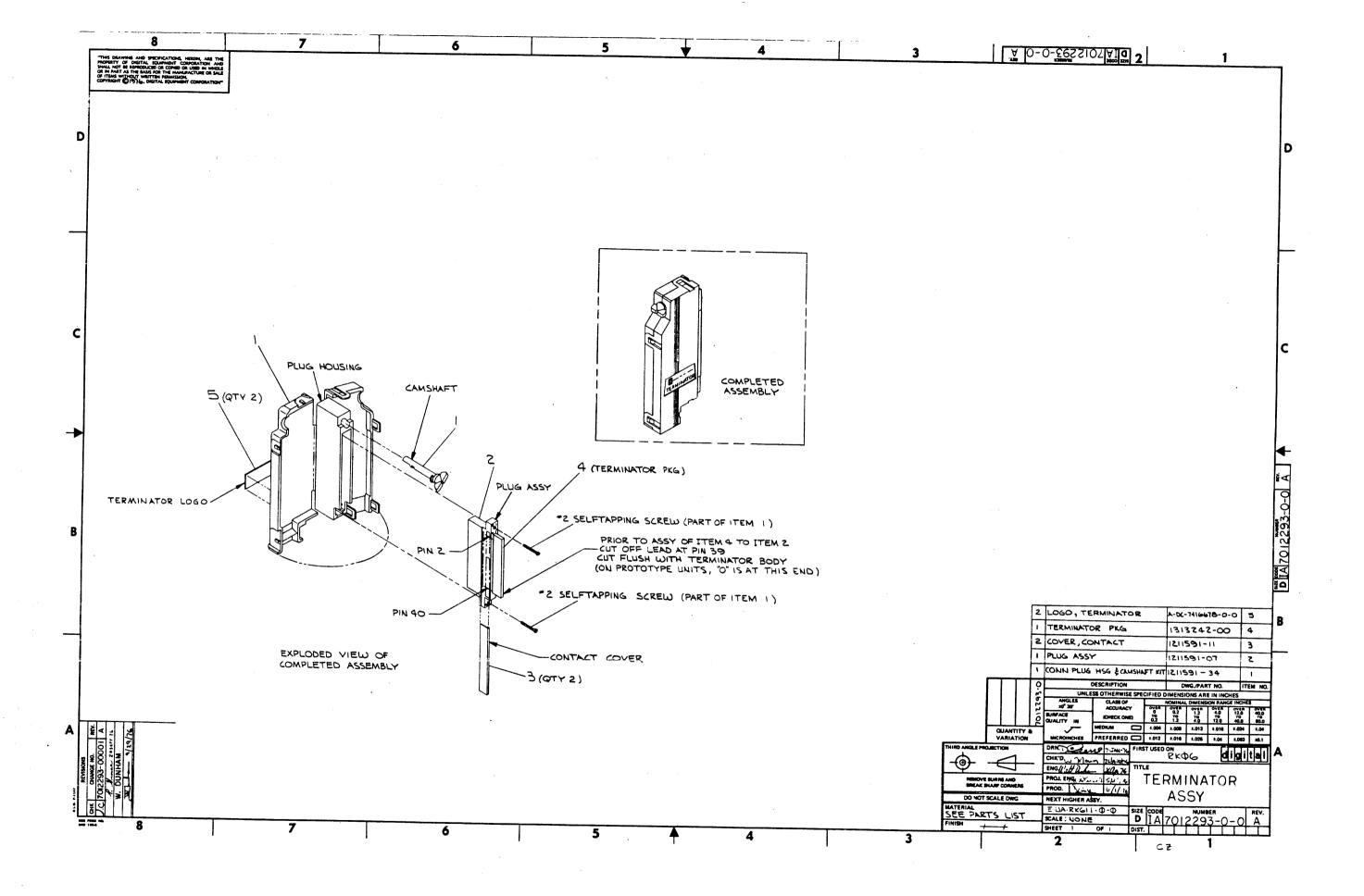
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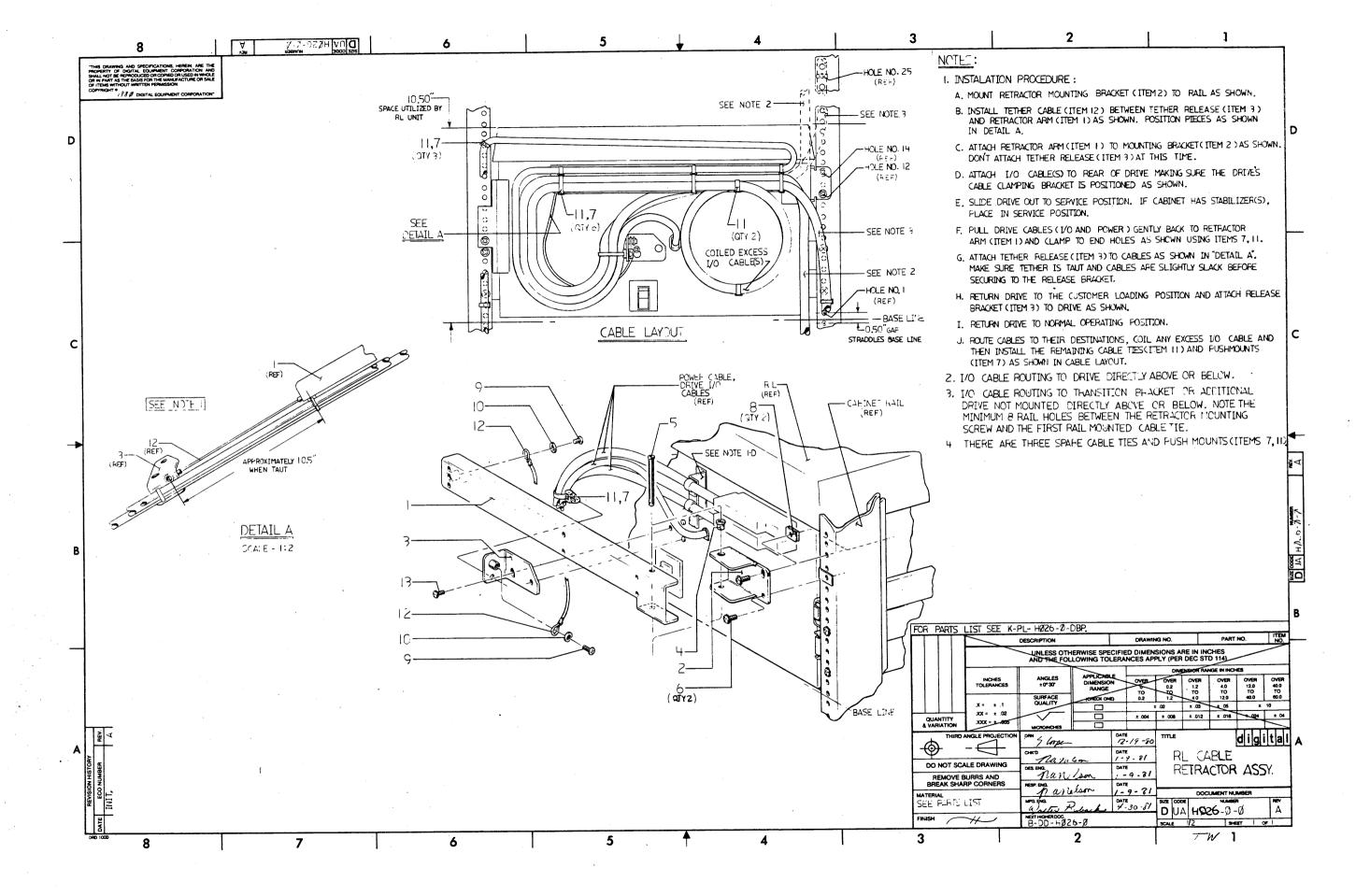
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1	A-PS-1700313-Ø-Ø	1700313-00	CABLE, NULL MODEM	-	-	-	-	-	-	-	-	-				
2	A-PS-1700313-Ø-Ø	1700313-01	CABLE, NULL MODEM	1	-	-	-	-	-	-		-				
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4	A-PS-1700313-Ø-Ø	1700313-03	CABLE, NULL MODEM	-	-	1			-	-	. –	-				
5	A-PS-1700313-Ø-Ø	1700313-04	CABLE, NULL MODEM	-	-	-	ı	-	-	-	-	-				
6	A-PS-1700313-Ø-Ø.	1700313-05	CABLE, NULL MODEM	-	-	-	-	1	-	-	- .	-				
7	A-PS-1700313-Ø-Ø	1700313-06	CABLE, NULL MODEM	- 3.	-	-	-	-	1	-	-	-				
8	A-PS-1700313-Ø-Ø	1700313-07	CABLE, NULL MODEM	-	-	-	-	-	-	1	-	-				
9	A-PS-1700313-Ø-Ø	1700313-08	CABLE, NULL MODEM	-	<u>-</u>	-	-	-	-	-	1	-				
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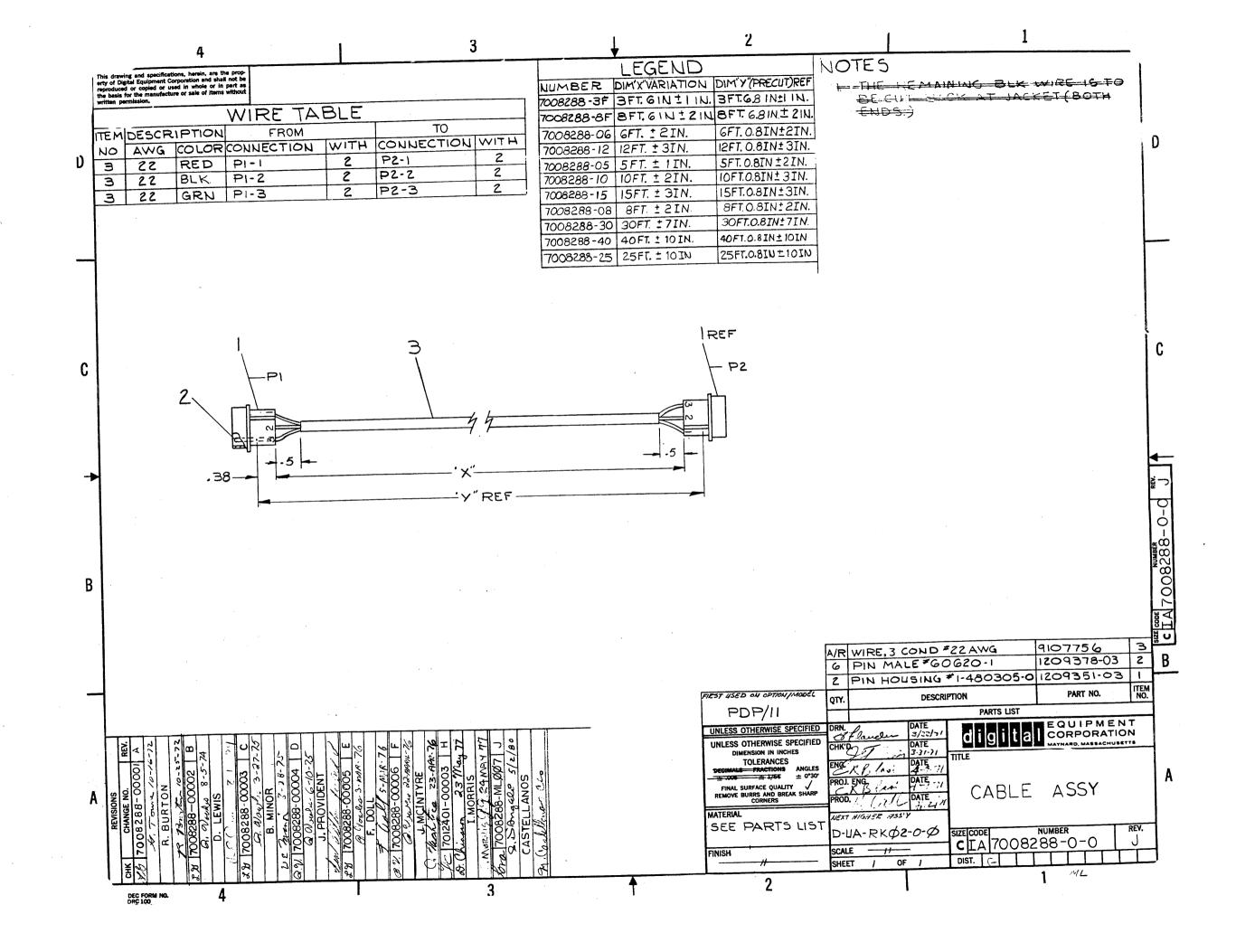




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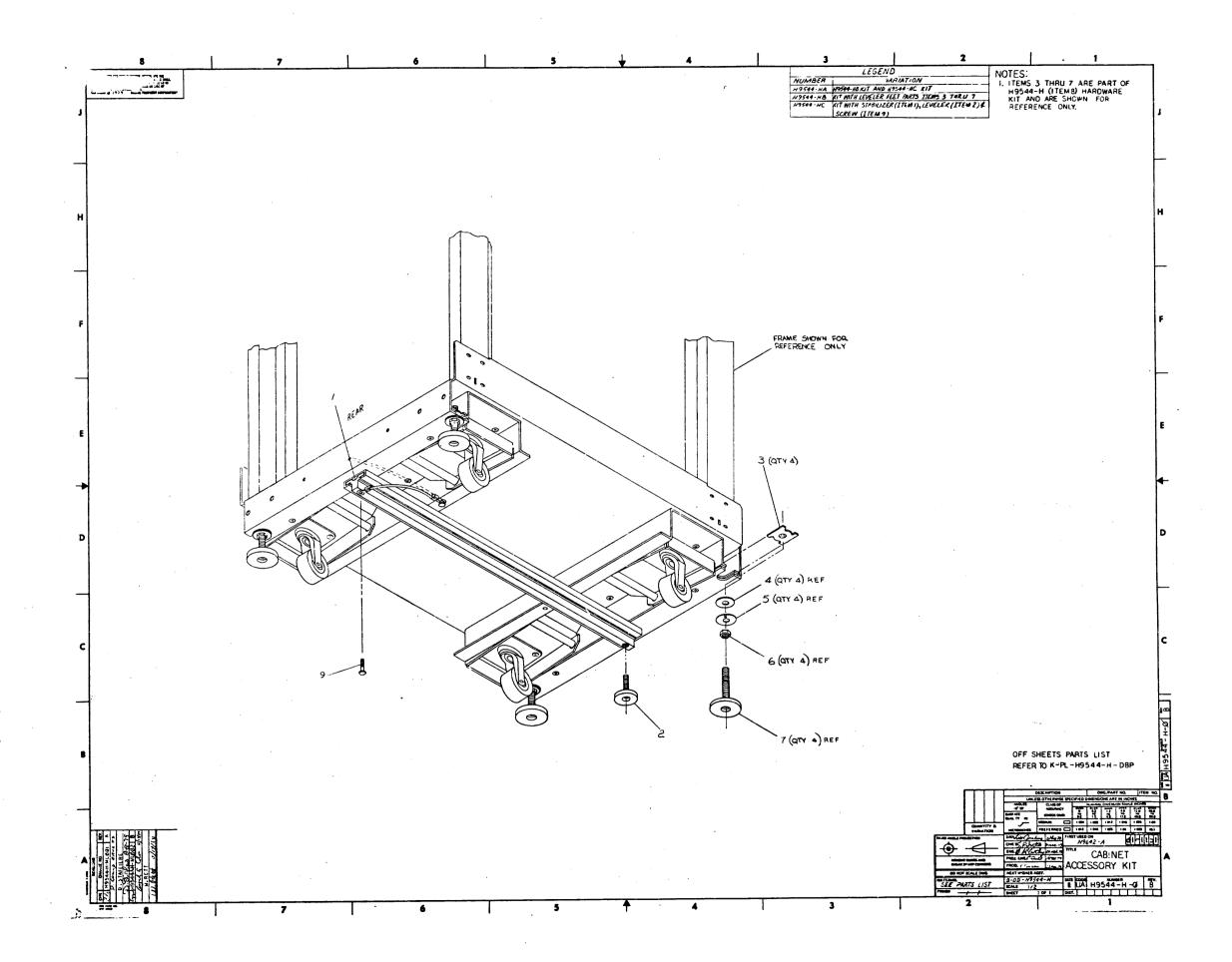


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E-UA-H9544-H-	CABINET ACCESSORY KIT	M	-				
K-PL-H9544-H-	DBP CABINET ACCESSORY KIT	M					
C-MD-7422204-	0-0 FOOT, STABILIZER	M	-				
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1	4	C-MD-7422204-0-0	7477764 66	1990 A 1990 Propagation of A 2 contract of the Contract of the
2	2	C-710-7422204-0-0	7422204-00 1216373-02	EXT FOOT (METAL) - 1 FOOT,LEVELER 1-3/8 BASE DIA 5/16 - 1
3	3		9008878-00	NUT, TEE, IRR. BASE 1/2-13 S/ZIN - 4 -
4	4		9009026-00	WASHER, FLAT, .875 O.D. X .515 I - 4 -
5	5		9009895-00	WASHER, LOCK, SPLIT, .518 ID X 4 -
. 3			9006596-00	NUTyHEX y 1/2-13X3/4 AF X 7/ - 4 -
ន	á		9007601-01 2200022-00	FOOT, LEVELER, CUSHION, 1/2-13, - 4 -
9	9	B-MD-7424417-0-0	7424417-00	HARDWARE KIT FOR H9544-H - REF - SCREW, HEX HEAD - 1
10	10		H9544-HB	KIT OF 4 LEVELERS 1
. 11	11		H9544-HC	KIT OF 1 STABILIZER LEG WITH LEU 1

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12 NOTE: ITEMS 3 THRU 7 ARE PART OF H9544-H HARDWARE KIT AND ARE 13 NOTE: LISTED FOR REFERENCE ONLY

! REVISION HISTORY !BASIC FART NO: H9544	! _!DRN: LISE GRAHAM	! ! PATE! AD WAD TO		
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!DS !H9544-H-ML001 !A ! [A] HA,HB,HC !WR !H9544-H-ML002 !B !			-	ACCESSORY KIT
Total Carlotte Control of the Contro	DES.ENG.: W.F. MC CARTHY	 DATE: 02-MAR-79		
	!RESP.ENG.: P. DUBE	! !DATE: 02-MAR-79		DOCUMENT NUMBER
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	MFG.ENG.: R. CARRIER	DATE: 02-MAR-79	K PL	H9544-H-DBP ! B
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